



Robb, Jaime Bauer <jaime.robb@deq.virginia.gov>

VWP 19-2036 - Wegmans Distribution Center - Request for Additional Information

1 message

Robb, Jaime Bauer <jaime.robb@deq.virginia.gov>

Tue, Aug 11, 2020 at 6:42 AM

To: doug.viets@wegmans.com

Cc: "Holley, Elaine K CIV USARMY CENAO (US)" <elaine.k.holley@usace.army.mil>, "Jones, Bryan (DEQ)" <bryan.jones@deq.virginia.gov>, Matt Neely <Matt.Neely@timmons.com>

Mr. Viets,

Please find attached a letter requesting additional information for the proposed project. If you have any questions, feel free to contact me.

Sincerely,

Jaime Robb

Jaime Robb |DEQ - PRO VWP and Stormwater Manager | 804-527-5086| jaime.robb@deq.virginia.gov

 **20200811_19-2036_Information Request Letter.pdf**
591K



Commonwealth of Virginia

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY

PIEDMONT REGIONAL OFFICE
4949-A Cox Road, Glen Allen, Virginia 23060
(804) 527-5020 FAX (804) 527-5106
www.deq.virginia.gov

Matthew J. Strickler
Secretary of Natural Resources

David K. Paylor
Director
(804) 698-4000

James J. Golden
Regional Director

August 11, 2020

Wegmans Food Markets, Inc.
Attn: Mr. Douglas Viets
1500 Brooks Avenue, P.O. Box 30844
Rochester, NY 14603-0844

Transmitted electronically to: doug.viets@wegmans.com

RE: Joint Permit Application Number 19-2036
Wegmans Distribution Center, Hanover County, Virginia
Additional Information Request Letter

Dear Mr. Viets:

The Virginia Department of Environmental Quality (DEQ) has received public comments for the above-referenced project during the public hearing that was held on July 20, 2020 and the public comment period, which ended on August 5, 2020. DEQ is requesting the following additional information in order to continue reviewing the Virginia Water Protection permit application for the proposed project:

1. DEQ received comments regarding potential secondary impacts that may occur to surface waters on-site and off-site. Please provide an analysis demonstrating how secondary impacts will be avoided to all remaining surface waters.
2. DEQ received comments regarding the classification of the jurisdictional ditches on-site for which Open Water Exclusions had previously been requested. Please provide additional information regarding the Cowardin classification of the jurisdictional ditches on-site and information regarding the functionality of the ditches on-site.
3. DEQ received comments regarding an Environmental Justice review for this project. Please provide any supporting information that demonstrates actions taken by Wegmans to review and address Environmental Justice concerns related to the project and specifically the Brown Grove Community.

4. DEQ received comments, which brought in to question the actual size of the proposed project. Currently the application materials propose a 1.1 million square foot distribution center; however, information received through public comments suggest a 1.7 million square foot facility is planned. Please provide information clearly explaining these differences and further demonstrating that the proposed project is consistent with the project's purpose and need.
5. Comments were received regarding the wetland delineation package submitted for the proposed site. Specifically, these concerns are that the delineation of the wetland/non-wetland mosaics area on site did not follow the procedures prescribed in the USACE's *Wetland Delineation Manual, Technical Report y-87-1, January 1987, Final Report* and the *Regional Supplement to the Corps of Engineers Manual: Atlantic and Gulf Coastal Plain Region*, and that surface waters were not fully identified during the delineation. DEQ also received public comments from stakeholders who believe the delineation was conducted during a drought, therefore, reducing the area of surface waters observed on site. In light of these comments, DEQ has sent the attached letter to the U.S. Army Corps of Engineers for further consideration.

Please be advised that as DEQ continues to review public comments, additional information may still be requested in order for DEQ to reach a permit recommendation to the Virginia State Water Control Board.

Please contact me by phone at (804) 527-5086 or by email at Jaime.Robb@deq.virginia.gov if you have any questions or concerns regarding this request. Thank you for your cooperation in this matter.

Respectfully,

Jaime B. Robb

Jaime B. Robb

Regional Virginia Water Protection Manager

Enclosure: DEQ Letter to U.S. Army Corps of Engineers dated August 5, 2020

Cc: Matt Neely, Timmons Group – VIA EMAIL
Elaine Holley, U.S. Army Corps of Engineers – VIA EMAIL
Bryan Jones, DEQ – VIA EMAIL



Robb, Jaime Bauer <jaime.robb@deq.virginia.gov>

VWP 19-2036 - Wegmans Distribution Center Additional Information Request

1 message

Robb, Jaime Bauer <jaime.robb@deq.virginia.gov>

Wed, Aug 19, 2020 at 6:02 PM

To: doug.viets@wegmans.com

Cc: "Jones, Bryan (DEQ)" <bryan.jones@deq.virginia.gov>, Matt Neely <Matt.Neely@timmons.com>, "Holley, Elaine K CIV USARMY CENAO (US)" <elaine.k.holley@usace.army.mil>

Mr. Viets,

Please see the attached request for additional information regarding the subject project. If you have any questions, please feel free to contact me.

Sincerely,

*Jaime Robb*Jaime Robb |DEQ - PRO VWP and Stormwater Manager | 804-527-5086| jaime.robb@deq.virginia.gov

 **20200819_19-2036_Information Request Letter2.pdf**
132K



Commonwealth of Virginia

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY

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James J. Golden
Regional Director

August 19, 2020

Wegmans Food Markets, Inc.
Attn: Mr. Douglas Viets
1500 Brooks Avenue, P.O. Box 30844
Rochester, NY 14603-0844

Transmitted electronically to: doug.viets@wegmans.com

RE: Joint Permit Application Number 19-2036
Wegmans Distribution Center, Hanover County, Virginia
Additional Information Request Letter

Dear Mr. Viets:

The Virginia Department of Environmental Quality (DEQ) is continuing to review comments received for the above-referenced project during the public hearing that was held on July 20, 2020 and the public comment period, which ended on August 5, 2020. As a supplement to the information requested in the letter to you dated August 11, 2020, DEQ is requesting additional information regarding the offsite alternatives analysis submitted with the Joint Permit Application and supplemental documentation in order to continue our review.

Please provide the following information for each offsite alternative:

1. A surface water map, using best available information, overlaid with the distribution center campus including ancillary infrastructure such as stormwater BMPs, storage areas, security, etc. Please include any areas designated as Resource Protection Areas. Avoidance and minimization of surface waters should be implemented to the maximum extent practicable for each site.
2. Any documentation or screening information used to analyze each offsite alternative for threatened and endangered species.

3. Additional information regarding transportation infrastructure improvement necessary for each site. Materials submitted with the application indicated that the preferred site, as well as alternatives 1 and 3, provided access to connector/dissipater roads without need for improvement. However, it has come to DEQ's attention that Sliding Hill Road is slated for improvement concurrently with the proposed construction of the project. Please explain if the Sliding Hill Road improvement project is being implemented for purposes of the proposed distribution center and what improvements are required for other sites, if any.

Please be advised that as DEQ continues to review public comments, additional information may still be requested in order for DEQ to reach a permit recommendation to the Virginia State Water Control Board.

Please contact me by phone at (804) 527-5086 or by email at Jaime.Robb@deq.virginia.gov if you have any questions or concerns regarding this request. Thank you for your cooperation in this matter.

Respectfully,

Jaime B. Robb

Jaime B. Robb
Regional Virginia Water Protection Manager

Enclosure: 20200804_Hearing_Comment_MorganR

Cc: Matt Neely, Timmons Group – VIA EMAIL
Elaine Holley, U.S. Army Corps of Engineers – VIA EMAIL
Bryan Jones, DEQ – VIA EMAIL



Robb, Jaime Bauer <jaime.robb@deq.virginia.gov>

VWP 19-2036 Proposed Wegmans Project

1 message

Robb, Jaime Bauer <jaime.robb@deq.virginia.gov>

Wed, Aug 5, 2020 at 12:49 PM

To: "Miller, Todd M CIV USARMY CENAO (USA)" <Todd.M.Miller@usace.army.mil>

Cc: "Holley, Elaine K CIV USARMY CENAO (US)" <elaine.k.holley@usace.army.mil>, "Jones, Bryan (DEQ)" <bryan.jones@deq.virginia.gov>, Dave Davis <dave.davis@deq.virginia.gov>

Good afternoon, Todd,

Please see the attached letter. If you have any questions, please feel free to contact me.

Jaime Robb

Jaime Robb |DEQ - PRO VWP and Stormwater Manager | 804-527-5086| jaime.robb@deq.virginia.gov



20200805_19-2036_Delineation_Letter_to_Corp.pdf
338K



Commonwealth of Virginia

VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY

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Matthew J. Strickler
Secretary of Natural Resources

David K. Paylor
Director
(804) 698-4000

James J. Golden
Regional Director

August 5, 2020

Mr. Todd Miller
Norfolk District - Southern Section
US Army Corps of Engineers
9100 Arboretum Parkway
Suite 235
Richmond, VA 23236

Transmitted electronically to: todd.m.miller@usace.army.mil

Re: Preliminary Jurisdictional Determination (PJD) for VWP Individual Permit Number 19-2036
Wegmans Distribution Center, Hanover County, Virginia

Mr. Miller,

As you are aware, the Virginia Department of Environmental Quality (DEQ) is currently processing a draft Virginia Water Protection (VWP) individual permit for the proposed Wegmans Distribution Center, permit number 19-2036. During the public comment period on the draft permit, DEQ has received several substantive comments regarding the delineation package submitted on October 15, 2019 and additional materials submitted on October 22, 2019 and December 10, 2019 for the proposed site. Specifically, these concerns are that the delineation of the wetland/non-wetland mosaics area on site did not follow the procedures prescribed in the USACE's *Wetland Delineation Manual, Technical Report Y-87-1, January 1987, Final Report* and the *Regional Supplement to the Corps of Engineers Manual: Atlantic and Gulf Coastal Plain Region*, and that surface waters were not fully identified during the delineation. DEQ also has received public comments from stakeholders who believe the delineation was conducted during a drought, therefore, reducing the area of surface waters observed on site.

In light of these public comments and the attached email from Elaine Holley to Bryan Jones dated August 5, 2020, DEQ is requesting that the Corps reevaluate the PJD (NAO-2012-02369) dated October 30, 2019 and revised February 11, 2020 to determine if additional work on the delineation is needed or to reaffirm that the current PJD for the site is valid. Should you have any questions, please feel free to contact me.

Sincerely,

Jaime B. Robb

Jaime B. Robb
Virginia Water Protection Permits Manager

Copy: Elaine Holley (USACE)
Dave Davis (DEQ)
Bryan Jones (DEQ)



Robb, Jaime Bauer <jaime.robb@deq.virginia.gov>

Fwd: FW: Wegmans (UNCLASSIFIED)

1 message

Jones, Bryan <bryan.jones@deq.virginia.gov>
To: Jaime Bauer Robb <jaime.robb@deq.virginia.gov>

Wed, Aug 5, 2020 at 11:04 AM

Bryan Jones
Environmental Specialist
Virginia Water Protection Program
Department of Environmental Quality | Piedmont Region
4949-A Cox Road | Glen Allen, VA 23060
P: (804) 527-5074 | F: (804) 527-5106 | E: Bryan.Jones@deq.virginia.gov
www.deq.virginia.gov

----- Forwarded message -----

From: **Holley, Elaine K CIV USARMY CENAO (US)** <Elaine.K.Holley@usace.army.mil>
Date: Wed, Aug 5, 2020 at 10:07 AM
Subject: FW: Wegmans (UNCLASSIFIED)
To: Jones, Bryan <bryan.jones@deq.virginia.gov>

CLASSIFICATION: UNCLASSIFIED

Oh Dear, Bryan, it looks like the 10% and the 30% got switched, if I remember correctly.

-----Original Message-----

From: Holley, Elaine K CIV USARMY CENAO (US)
Sent: Wednesday, August 5, 2020 7:55 AM
To: Matt Neely <Matt.Neely@timmons.com>; Eli Wright <Eli.Wright@timmons.com>
Subject: Wegmans (UNCLASSIFIED)

CLASSIFICATION: UNCLASSIFIED

Please give me your thoughts about the JD of the aquatic resources on Wegmans using the NWPR. Just your thoughts. I need to consider the differences (i.e., do you think the reduction in JD would change the project from IP to SPGP) and the comments received regarding the delineation. I think it might put the project into a GP, but want to know what y'all think.

Just your thoughts--don't spend more than an hour thinking about it.

The pictograms are now on our website at the bottom of the page, under "Jurisdictional Determinations".

CLASSIFICATION: UNCLASSIFIED

CLASSIFICATION: UNCLASSIFIED

 2012-02369AddRevJDMMap.pdf
664K

From: Matt Neely <Matt.Neely@timmons.com>
Sent: Tuesday, September 15, 2020 4:55 PM
To: Robb, Jaime Bauer; Jones, Bryan
Cc: Miller, Todd M CIV USARMY CENAO (USA); Dan Aken; Doug Viets; Ivan Wu
Subject: Wegmans Individual Permit Application; Additional Information Request Responses and Supplemental Information Package

Ms. Robb and Mr. Jones

Below is a download link that contains responses to your additional information request letters, dated 8/11/2020 and 8/19/2020. Additionally, due to the recent update to the delineation information provided by the U.S. Army Corps of Engineers, an additional/supplemental information package has been prepared for your review and is also included.

Click the following link to download your file(s).

[Click to Retrieve File\(s\)](#)

Additional Information Package September 2020.pdf
Combined DEQ response letter September 2020.pdf

If the above link is not clickable, copy and paste the following URL into your browser.

<https://www.sendthisfile.com/QTDIKHCj1y7qZmMi3MuhbxEK>

Note: These files will expire in 14 days from the time this email was generated.

Please do not hesitate to reach out should you have further questions or require additional information.

Regards,

Matt Neely, PWD
Senior Environmental Project Manager

TIMMONS GROUP | www.timmons.com
1001 Boulders Parkway, Suite 300 | Richmond, VA 23225
Office: 804.200.6369 | Fax: 804.560.1648
Mobile: 757.329.0573 | matt.neely@timmons.com
Your Vision Achieved Through Ours

To send me files greater than 20MB [click here](#).



1001 Boulders Parkway
Suite 300
Richmond, VA 23225

P 804.200.6500
F 804.560.1016
www.timmons.com

September 15, 2020

Ms. Jaime Robb
Regional Virginia Water Protection Manager
Virginia Department of Environmental Quality
4949-A Cox Road
Richmond, Virginia 23236

Mr. Bryan Jones
Virginia Department of Environmental Quality
4949-A Cox Road
Richmond, Virginia 23236

Re: Joint Permit Application Number 19-2036 – Wegmans Distribution Center - Hanover County, Virginia – Additional Information Letter Responses to Additional Information Request Letters Dated: 8/11/2020 and 8/19/2020.

Ms. Robb and Mr. Jones

On behalf the Applicant, Wegmans Food Markets, Inc., please find responses to the items requested by the Virginia Department of Environmental Quality (DEQ) in Additional Information Requests made via letters dated 8/11/2020 and 8/19/2020, regarding the Joint Permit Application for the Wegmans Distribution Center in Hanover County.

Comments below from DEQ (blue) with responses (in black):

8/11/2020 Letter

1. DEQ received comments regarding potential secondary impacts that may occur to surface waters on-site and off-site. Please provide an analysis demonstrating how secondary impacts will be avoided to all remaining surface waters.

Site design and development will be in accordance with all state regulations regarding stormwater management and erosion and sediment controls. Stormwater will be routed to the large stormwater facility located in the southwest portion of the site. This facility will discharge at rates comparable to pre-development conditions, preventing offsite flooding.

Additionally, the site was analyzed to determine the possibility of secondary impacts to surface waters due to the loss of hydrological connections. Those surface waters determined to be impacted by a loss of hydrology have been accounted for as secondary impacts and are depicted on the impacts map and associated table within the enclosed package. Those secondary impacts will be mitigated for utilizing the standard mitigation ratios in accordance with their Cowardin Classification. If there are additional concerns regarding the remaining surface waters on-site, the applicant is willing to provide monitoring efforts of those areas as a condition of the permit.

2. DEQ received comments regarding the classification of jurisdictional ditches on-site for which Open Water Exclusions had previously been requested. Please provide additional information regarding the Cowardin classification of the jurisdictional ditches on-site and information regarding the functionality of the ditches on-site.

Upon further review the ditches on-site are no longer providing functionality with respect to drainage. Because of this, and their adjacency to the Palustrine Forested (PFO) wetlands on-site, the applicant is included these features as impacts and they will be mitigated for at a 2:1 ratio, as depicted in the enclosed compensatory mitigation calculations.

3. DEQ received comments regarding an Environmental Justice review for this project. Please provide any supporting information that demonstrates actions taken by Wegmans to review and address Environmental Justice concerns related to the project and specifically the Brown Grove Community.

Representatives from Wegmans (Dan Aken and Doug Viets) as well as Timmons Group (Ivan Wu), met with members from the Brown Grove community on 2/7/2020 to discuss the project. The following individuals were in attendance (see attendance sheet in attached package):

-Bonnica Cotman
-Willnette Jackson
-Artrianna Morris
-Michael Morris
-Benjamin Jackson

A summary of the items discussed during that meeting is included below:

- Attendees requested an updated Conceptual Plan showing the initial limits of disturbance. The residents adjacent to Egypt Road are concerned about the initial clearing getting close to their homes.
- Attendees wanted the Employee Entrance to be safe and have witnessed many accidents on/near the church property.
- Attendees wanted to understand the Landscaping & Buffers and don't want to see the fence or site lights.
- Attendees mentioned a history of drainage and flooding problems along Ashcake Road near the church
- Attendees said don't want to hear the trucks backing up and beeping
- Attendees were concerned with trash blowing around. Wegmans discussed that with an 8' fence and internal trash compactors it won't be a problem.
- Attendees mentioned previous truck CB radio interference coming through the church PA system
- Attendees were concerned about groundwater contamination of existing wells. They were relieved to know that fuel tanks wouldn't be storage onsite/underground.
- Attendees mentioned they would like to connect to public sewer and water. And Wegmans agreed to look into the possibility.
- Attendees asked about wages and hiring locals
- Attendees wanted to know if Wegmans hires felons and sex offenders

On 2/14/2020, Dan Aken provided an email addressing many of the concerns the attendees voiced during the meeting. That email is enclosed with this correspondence.

Additionally, the results from an Environmental Justice screening tool on the EPA's website, as well as demographic data from the 2010 Census tract for the Wegmans project area are enclosed.

4. DEQ received comments, which brought in to question the actual size of the proposed project. Currently the application materials propose a 1.1 million square foot distribution center; however, information received through public comments suggest a 1.7 million square foot facility is planned. Please provide information clearly explaining these differences and further demonstrating that the proposed project is consistent with the project's purpose and need.

The required site components include a phase I approximately 1.1 million contiguous square feet (sq. ft) facility developed in a "L" shape that will house a dry warehouse, refrigerated warehouse, return center, and offices, with a nearer term Phase II expansion to approximately 1.3 million square feet. In addition, appurtenant facilities such as parking and staging areas for tractor trailers, parking for associates, and ancillary support buildings (i.e. returning trailer cleanout & and site security) are necessary for operations. Future development/expansion of the distribution center will be constructed in accordance with county zoning which allows for a maximum buildout of 1.7 million square feet. The current application and impacts mapping accounts for onsite distribution center expansion.

5. Comments were received regarding the wetland delineation package submitted for the proposed site. Specifically, these concerns are that the delineation of the wetland/non-wetland mosaics area on site did not follow the procedures prescribed in the USACE's Wetland Delineation Manual, Technical Report y-87-1, January 1987, Final Report and the Regional Supplement to the Corps of Engineers Manual: Atlantic and Gulf Coastal Plain Region, and that surface waters were not fully identified during the delineation. DEQ also received public comments from stakeholders who believe the delineation was conducted during a drought, therefore, reducing the area of surface waters observed on site. In light of these comments, DEQ has sent the attached letter to the U.S. Army Corps of Engineers for further consideration.

Following receipt of DEQ's letter, U.S. Army Corps of Engineers staff conducted additional field work on the site to determine the accuracy of the current Preliminary Jurisdictional Determination. It was determined that the PJD in October of 2019 and revised in February of 2020, was inaccurate. Subsequently, the Corps agreed to issue a new PJD (with an Approved Jurisdictional Determination (AJD) to follow) based on this additional field work. Additionally, the Corps will provide a technical memo explaining why the previous determination was made in error. A new Preliminary Jurisdictional Determination was issued on 15 September 2020. Please see the enclosed package for the updated jurisdictional determination.

8/19/2020 Letter

Please provide the following information for each offsite alternative:

1. A surface water map, using best available information, overlaid with the distribution center campus including ancillary infrastructure such as stormwater BMPs, storage areas, security, etc. Please include any areas designated as Resource Protection Areas. Avoidance and minimization of surface waters should be implemented to the maximum extent practicable for each site.

Please see enclosed package for information regarding offsite alternatives.

Note: full site engineering and design was not completed for all the alternatives. Specifically, the exhibits for Alternative 3 (Archie Cannon Site), and Alternative 4 (Graymont Site) do not depict

the required stormwater facilities that would enable a regional distribution center to be in accordance with local and state regulations at those locations. The Applicant and their consulting engineers determined full design of these sites to be unnecessary since other factors (offsite improvements, logistics, costs, zoning, etc.) eliminate those locations from contention. Impacts depicted on those alternatives do not include any impacts associated with surface waters that may be necessary for the implementation of stormwater facilities like the one depicted on the impact map for the Airpark site.

2. Any documentation or screening information used to analyze each offsite alternative for threatened and endangered species.

Preliminary T & E review was conducted utilizing database search services such as the U.S. Fish and Wildlife Service Information for Planning and Consultation (IPaC) tool as well as the, VDGIF (now DWR) Virginia Fish and Wildlife Information Service (VaFWIS) tool.

In addition to the database searches referenced above, Three Oaks Engineering conducted a mussel survey within the South Anna River in association with the due diligence being conducted on Alternative 4 (Graymont site). Additionally, a swamp pink survey was conducted on the Airpark site by Seedbox Consulting (Mr. Chris Ludwig).

T&E information for the alternative sites is enclosed with this response.

3. Additional information regarding transportation infrastructure improvement necessary for each site. Materials submitted with the application indicated that the preferred site, as well as alternatives 1 and 3, provided access to connector/dissipater roads without need for improvement. However, it has come to DEQ's attention that Sliding Hill Road is slated for improvement concurrently with the proposed construction of the project. Please explain if the Sliding Hill Road improvement project is being implemented for purposes of the proposed distribution center and what improvements are required for other sites, if any.

Each alternative, including the preferred alternative, will require some level of transportation/road improvements. Additional details regarding some of those improvements can be found in the enclosed package of additional information within the offsite alternatives analysis section.

The Sliding Hill Road improvement project was and is being implemented as part of the thoroughfare plan and is identified in the approved Transportation Improvement Program (TIP) FY18-21. According to County documentation the project is being financed using a combination of local, state, and federal funds.

Thank you for your attention to this project. Please contact Matt Neely at (804) 200-6369 or matt.neely@timmons.com if there are any questions and/or if additional information is required.

Sincerely,
Timmons Group



Matt Neely, PWD
Senior Environmental Project Manager

CC: Todd Miller (USACE)

Attachments:

- 1) Individual Permit Application, Additional Information Package Wegmans Distribution Center, Hanover VA (NAO-2012-02369, VWPP No. 19-2036)
- 2) Alternative Site T& E Information
- 3) Brown Grove Meeting Attendee List and Meeting Correspondence (Dan Aken email)

T&E Information
Wegmans Distribution Center
(NAO-2012-02369, VWPP NO. 19-2036)

**Alternative 1
Flippo Site**



United States Department of the Interior



FISH AND WILDLIFE SERVICE
Virginia Ecological Services Field Office
6669 Short Lane
Gloucester, VA 23061-4410
Phone: (804) 693-6694 Fax: (804) 693-9032
<http://www.fws.gov/northeast/virginiafield/>

In Reply Refer To:
Consultation Code: 05E2VA00-2020-SLI-6073
Event Code: 05E2VA00-2020-E-16880
Project Name: Alternative 1

September 11, 2020

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*). Any activity proposed on National Wildlife Refuge lands must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered

species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF>

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (<http://www.fws.gov/windenergy/>) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm>; <http://www.towerkill.com>; and <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List
 - USFWS National Wildlife Refuges and Fish Hatcheries
-

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Virginia Ecological Services Field Office

6669 Short Lane

Gloucester, VA 23061-4410

(804) 693-6694

Project Summary

Consultation Code: 05E2VA00-2020-SLI-6073

Event Code: 05E2VA00-2020-E-16880

Project Name: Alternative 1

Project Type: ** OTHER **

Project Description: Regional Distribution Center Development

Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/place/37.8370087532697N77.46210118293087W>



Counties: Hanover, VA

Endangered Species Act Species

There is a total of 1 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

-
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME	STATUS
Northern Long-eared Bat <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045	Threatened

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

USFWS National Wildlife Refuge Lands And Fish Hatcheries

Any activity proposed on lands managed by the [National Wildlife Refuge](#) system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.

Site Location

37,50,10.8 -77,27,54.9
is the Search Point

Show Position Rings

☒ Yes ☐ No
1/2 mile and 1/8 mile at the
Search Point

Show Search Area

☒ Yes ☐ No
2 Search distance miles
radius

Search Point is at
map center

Base Map Choices

BW Aerial Photography ▼

Map Overlay Choices

Current List: Position, Search,
BECAR, BAEANests,
TEWaters, TierII, Habitat,
Trout, Anadromous

Map Overlay Legend

T & E Waters

Federal

State

Predicted Habitat
WAP Tier I & II

Aquatic

Terrestrial

Trout Waters

Class I - IV

Class V - VI

Anadromous Fish Reach

Confirmed

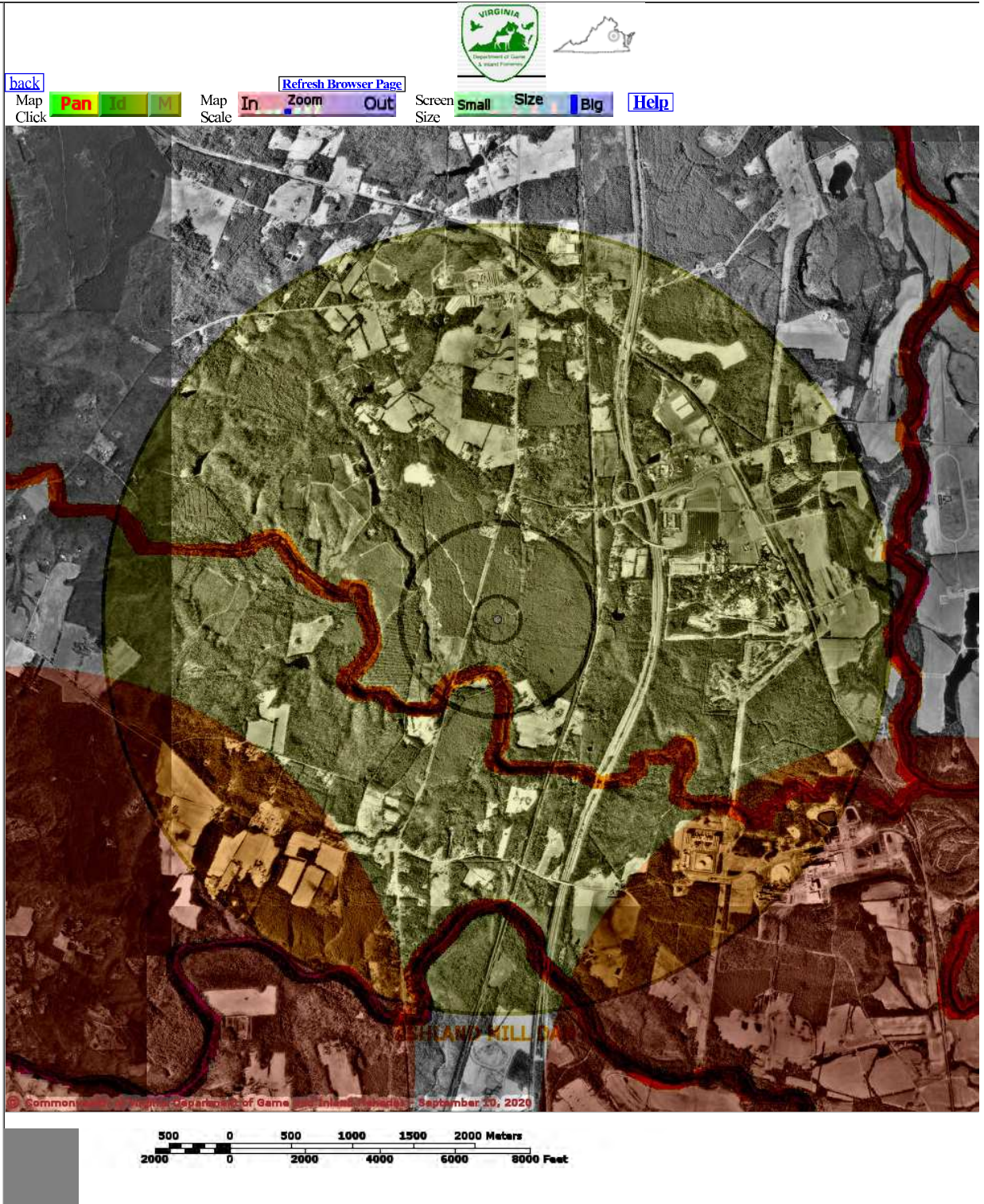
Potential

Impediment

Position Rings
1/2 mile and
1/8 mile at the
Search Point

2 mile radius
Search Area

Bald Eagle
Concentration Areas
and Roosts



Point of Search 37,50,10.8 -77,27,54.9

Map Location 37,50,10.8 -77,27,54.9

Select **Coordinate System**: ☒ Degrees, Minutes, Seconds Latitude - Longitude

☐ Decimal Degrees Latitude - Longitude

☐ Meters UTM NAD83 East North Zone

☐ Meters UTM NAD27 East North Zone

Base Map source: Black & White USGS Aerial Photography (see [Microsoft.terraserver-usa.com](https://microsoft.terraserver-usa.com) for details)

Map projection is UTM Zone 18 NAD 1983 with left 279063 and top 4194520. Pixel size is 8 meters. Coordinates displayed are Degrees, Minutes, Seconds North and West. Map is currently displayed as 1000 columns by 1000 rows for a total of 1,000,000 pixels. The map display represents 8000 meters east to west by 8000 meters north to south for a total of 64.0 square kilometers. The map display represents 26251 feet east to west by 26251 feet north to south for a total of 24.7 square miles.

VaFWIS Initial Project Assessment Report Compiled on 9/10/2020, 10:31:06 AM[Help](#)

Known or likely to occur within a **2 mile radius around point 37,50,10.8 -77,27,54.9**
 in **033 Caroline County, 085 Hanover County, VA**

[View Map of
Site Location](#)

481 Known or Likely Species ordered by Status Concern for Conservation
 (displaying first 22) (22 species with Status* or Tier I** or Tier II**)

BOVA Code	Status*	Tier**	Common Name	Scientific Name	Confirmed	Database(s)
040228	FESE	Ia	Woodpecker, red-cockaded	Picoides borealis		BOVA
060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	Yes	BOVA,TEWaters,Habitat
010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes	BOVA,TEWaters
050022	FTST	Ia	Bat, northern long-eared	Myotis septentrionalis		BOVA
060029	FTST	IIa	Lance, yellow	Elliptio lanceolata		BOVA
050020	SE	Ia	Bat, little brown	Myotis lucifugus		BOVA
050034	SE	Ia	Bat, Rafinesque's eastern big-eared	Corynorhinus rafinesquii macrotis		BOVA
050027	SE	Ia	Bat, tri-colored	Perimyotis subflavus		BOVA
040293	ST	Ia	Shrike, loggerhead	Lanius ludovicianus		BOVA
040385	ST	Ia	Sparrow, Bachman's	Peucaea aestivalis		BOVA
060081	ST	IIa	Floater, green	Lasmigona subviridis		BOVA
040292	ST		Shrike, migrant loggerhead	Lanius ludovicianus migrans		BOVA
030063	CC	IIIa	Turtle, spotted	Clemmys guttata		BOVA
010077		Ia	Shiner, bridle	Notropis bifrenatus		BOVA
040052		IIa	Duck, American black	Anas rubripes		BOVA
040029		IIa	Heron, little blue	Egretta caerulea caerulea		BOVA
040036		IIa	Night-heron, yellow-crowned	Nyctanassa violacea violacea		BOVA
040320		IIa	Warbler, cerulean	Setophaga cerulea		BOVA
040140		IIa	Woodcock, American	Scolopax minor		BOVA
060071		IIa	Lampmussel, yellow	Lampsilis cariosa		BOVA
040203		IIB	Cuckoo, black-billed	Coccyzus erythrophthalmus		BOVA
040105		IIB	Rail, king	Rallus elegans		BOVA

To view **All 481 species** [View 481](#)

*FE=Federal Endangered; FT=Federal Threatened; SE=State Endangered; ST=State Threatened; FP=Federal Proposed;
 FC=Federal Candidate; CC=Collection Concern

**I=VA Wildlife Action Plan - Tier I - Critical Conservation Need; II=VA Wildlife Action Plan - Tier II - Very High Conservation Need;
 III=VA Wildlife Action Plan - Tier III - High Conservation Need; IV=VA Wildlife Action Plan - Tier IV - Moderate Conservation Need
 Virginia Wildlife Action Plan Conservation Opportunity Ranking:

a - On the ground management strategies/actions exist and can be feasibly implemented.;

b - On the ground actions or research needs have been identified but cannot feasibly be implemented at this time.;

c - No on the ground actions or research needs have been identified or all identified conservation opportunities have been exhausted.

Bat Colonies or Hibernacula: Not Known

Anadromous Fish Use Streams (3 records)

[View Map of All
Anadromous Fish Use Streams](#)

Stream ID	Stream Name	Reach Status	Anadromous Fish Species			View Map
			Different Species	Highest TE *	Highest Tier **	
C39	Little river	Confirmed	1			Yes
C54	North Anna river	Confirmed	5		IV	Yes
C70	South Anna river	Confirmed	5		IV	Yes

Impediments to Fish Passage (1 records)

[View Map of All
Fish Impediments](#)

ID	Name	River	View Map
682	ASHLAND MILL DAM	SOUTH ANNA RIVER	Yes

Colonial Water Bird Survey

N/A

Threatened and Endangered Waters (9 Reaches)

[View Map of All
Threatened and Endangered Waters](#)

Stream Name	T&E Waters Species						View Map
	Highest TE*	BOVA Code, Status*, Tier**, Common & Scientific Name					
(07000020)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
North Anna River (0106914)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
North Anna River (0112931)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
South Anna River (0129385)	FESE	060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	Yes
South Anna River (0130948)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0130969)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0137259)	FESE	060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	Yes
South Anna River (0143639)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	

South Anna River (0148520)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	

Managed Trout Streams

N/A

Bald Eagle Concentration Areas and Roosts

N/A

Bald Eagle Nests

N/A

Habitat Predicted for Aquatic WAP Tier I & II Species (1 Reach)[View Map Combined Reaches from Below of Habitat Predicted for WAP Tier I & II Aquatic Species](#)

Stream Name	Tier Species						View Map
	Highest TE [*]	BOVA Code, Status [*] , Tier ^{**} , Common & Scientific Name					
South Anna River (20801061)	FESE	060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	Yes
South Anna River (20801061)	FESE	060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	Yes

Habitat Predicted for Terrestrial WAP Tier I & II Species

N/A

Public Holdings:

N/A

Compiled on 9/10/2020, 10:31:06 AM 11053020.0 report=IPA searchType= R dist= 3218.688 poi= 37,50,10.8 -77,27,54.9

PixelSize=64; Anadromous=0.038203; BECAR=0.024104; Bats=0.023853; Buffer=0.097159; County=0.094597; Impediments=0.035957; Init=0.188068; PublicLands=0.033564; SppObs=0.237593; TEWaters=0.044034; TierReaches=0.0644; TierTerrestrial=0.046472; Total=1.100351; Tracking_BOVA=0.202788; Trout=0.033222

Threatened and Endangered Waters where Wedgemussel, dwarf (060003) observed

37,50,10.8 -77,27,54.9
is the Search Point

Show Position Rings

☐ Yes ☒ No
1/2 mile and 1/8 mile at the
Search Point

Show Search Area

☒ Yes ☐ No
2 Search distance miles
radius

Search Point is at
map center

Base Map Choices

BW Aerial Photography ▼

Map Overlay Choices

Current List: TEWaters,
Search

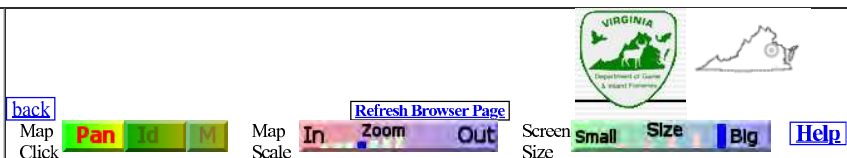
Map Overlay Legend

T & E Waters

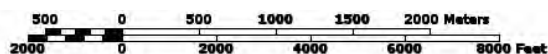
Federal

State

2 mile radius
Search Area



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Point of Search 37,50,10.8 -77,27,54.9

Map Location 37,50,10.8 -77,27,54.9

Select **Coordinate System:** ☒ Degrees, Minutes, Seconds Latitude - Longitude

☐ Decimal Degrees Latitude - Longitude

☐ Meters UTM NAD83 East North Zone

☐ Meters UTM NAD27 East North Zone

Base Map source: Black & White USGS Aerial Photography (see [Microsoft.terraserver-usa.com](https://microsoft.terraserver-usa.com) for details)

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Virginia Department of Game and Inland Fisheries

9/10/2020 2:18:28 PM

Fish and Wildlife Information Service

VaFWIS Search Report Compiled on 9/10/2020, 2:18:28 PM

[Help](#)

Known or likely to occur within a **2 mile radius around point 37,50,10.8 -77,27,54.9**
 in **033 Caroline County, 085 Hanover County, VA**
 where (060003) [Wedgemussel, dwarf](#) observed.

[View Map of
Site Location](#)

Threatened and Endangered Waters where Wedgemussel, dwarf (060003) observed

(6 Reaches)

[View Map of All
Threatened and Endangered Waters](#)

Stream Name	T&E Waters Species						View Map
	Highest TE*	BOVA Code, Status*, Tier**, Common & Scientific Name					
South Anna River (0129385.)	FESE	060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	Yes
South Anna River (0130948.)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0130969.)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0137259.)	FESE	060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	Yes
South Anna River (0143639.)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0148520.)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	

*FE=Federal Endangered; FT=Federal Threatened; SE=State Endangered; ST=State Threatened; FP=Federal Proposed; FC=Federal Candidate; CC=Collection Concern

**I=VA Wildlife Action Plan - Tier I - Critical Conservation Need;
 II=VA Wildlife Action Plan - Tier II - Very High Conservation Need;
 III=VA Wildlife Action Plan - Tier III - High Conservation Need;
 IV=VA Wildlife Action Plan - Tier IV - Moderate Conservation Need
 Virginia Wildlife Action Plan Conservation Opportunity Ranking:

- a - On the ground management strategies/actions exist and can be feasibly implemented.;
- b - On the ground actions or research needs have been identified but cannot feasibly be implemented at this time.;
- c - No on the ground actions or research needs have been identified or all identified conservation opportunities have been exhausted.

Habitat Predicted for Aquatic WAP Tier I & II Species where Wedgemussel, dwarf (060003) observed

(1 Reach)

[View Map Combined Reaches from Below of Habitat Predicted for WAP Tier I & II Aquatic Species](#)

Stream Name	Tier Species						View Map
	Highest TE [*]	BOVA Code, Status [*] , Tier ^{**} , Common & Scientific Name					
South Anna River (20801061)	FESE	060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	Yes
South Anna River (20801061)	FESE	060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	Yes

Habitat Predicted for Terrestrial WAP Tier I & II Species where Wedgemussel, dwarf (060003) observed

N/A

Compiled on 9/10/2020, 2:18:28 PM 11053085.1 report=BOVA searchType= R dist= 3218.688 poi= 37,50,10.8 -77,27,54.9

audit no. 1053085 9/10/2020 2:18:28 PM Virginia Fish and Wildlife Information Service

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Threatened and Endangered Waters where Sturgeon, Atlantic (010032) observed

37,50,10.8 -77,27,54.9
is the Search Point

Show Position Rings

☐ Yes ☒ No
1/2 mile and 1/8 mile at the
Search Point

Show Search Area

☒ Yes ☐ No
2 Search distance miles
radius

Search Point is at
map center

Base Map Choices

BW Aerial Photography ▼

Map Overlay Choices

Current List: Search,
TEWaters

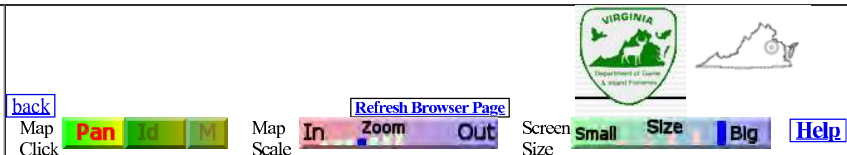
Map Overlay Legend

T & E Waters

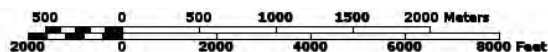
Federal

State

2 mile radius
Search Area



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Point of Search 37,50,10.8 -77,27,54.9

Map Location 37,50,10.8 -77,27,54.9

Select **Coordinate System:** ☒ Degrees, Minutes, Seconds Latitude - Longitude

☐ Decimal Degrees Latitude - Longitude

☐ Meters UTM NAD83 East North Zone

☐ Meters UTM NAD27 East North Zone

Base Map source: Black & White USGS Aerial Photography (see [Microsoft.terraserver-usa.com](https://microsoft.terraserver-usa.com) for details)

Map projection is UTM Zone 18 NAD 1983 with left 279063 and top 4194520. Pixel size is 8 meters. Coordinates displayed are Degrees, Minutes, Seconds North and West. Map is currently displayed as 1000 columns by 1000 rows for a total of 1000000 pixels. The map display represents 8000 meters east to west by 8000 meters north to south for a total of 64.0 square kilometers. The map display represents 26251 feet east to west by 26251 feet north to south for a total of 24.7 square miles.



Virginia Department of Game and Inland Fisheries

9/10/2020 2:19:32 PM

Fish and Wildlife Information Service

VaFWIS Search Report Compiled on 9/10/2020, 2:19:32 PM

[Help](#)

Known or likely to occur within a **2 mile radius around point 37,50,10.8 -77,27,54.9**
 in **033 Caroline County, 085 Hanover County, VA**
 where (010032) [Sturgeon, Atlantic](#) observed.

[View Map of
Site Location](#)

Threatened and Endangered Waters where Sturgeon, Atlantic (010032) observed

(7 Reaches)

[View Map of All
Threatened and Endangered Waters](#)

Stream Name	T&E Waters Species						View Map
	Highest TE*	BOVA Code, Status*, Tier**, Common & Scientific Name					
(07000020)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
North Anna River (0106914)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
North Anna River (0112931)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
South Anna River (0130948)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0130969)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0143639)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0148520)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	

*FE=Federal Endangered; FT=Federal Threatened; SE=State Endangered; ST=State Threatened; FP=Federal Proposed;
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**I=VA Wildlife Action Plan - Tier I - Critical Conservation Need;

II=VA Wildlife Action Plan - Tier II - Very High Conservation Need;

III=VA Wildlife Action Plan - Tier III - High Conservation Need;

IV=VA Wildlife Action Plan - Tier IV - Moderate Conservation Need

Virginia Wildlife Action Plan Conservation Opportunity Ranking:

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b - On the ground actions or research needs have been identified but cannot feasibly be implemented at this time.;

c - No on the ground actions or research needs have been identified or all identified conservation opportunities have been exhausted.

Compiled on 9/10/2020, 2:19:32 PM 11053085.1 report=BOVA searchType= R dist= 3218.688 poi= 37,50,10.8 -77,27,54.9

audit no. 1053085 9/10/2020 2:19:32 PM Virginia Fish and Wildlife Information Service

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G3 Vulnerable S3 Vulnerable

Federal Legal Status:
Select All
LL - Listed endangered
LI - Listed threatened
PE - Proposed endangered

State Legal Status:
Select All
LL - Listed endangered
LI - Listed threatened
PE - Proposed endangered

Select Operand:
☐ AND ☒ OR

County:
Select All
Accomack
Albemarle
Alleghany

Physiographic Province:
Select All
Allegheny Mountains
Cumberland Mountains
Northern Blue Ridge

[Click here to view county map](#) [Click here to view province map](#)

Watershed (8 digit HUC):
02080105 - Mattaponi River
02080106 - Pamunkey River
02080107 - York River
02080108 - James River-Potomac

Subwatershed (12 digit HUC):
Y022 - North Anna River-Lavonia Ck
Y024 - (Lower) Little River-Coastal Crk
Y025 - (Lower) Little River-Bayview Crk
Y026 - North Anna River Long Creek

[Click here to view watershed map](#) [Click here to view subwatershed map](#)

Planning District:
Select All
Accomack-Norfolk
Central Shenandoah
Commonwealth Regional Council

Virginia Coastal Zone:
Select All
Yes
No

[Click here to view planning district map](#) [Click here to view coastal zone map](#)

Search Reset

Results

Feature Search Error
No results found.

Alternative 2
Blenheim Site



United States Department of the Interior



FISH AND WILDLIFE SERVICE
Virginia Ecological Services Field Office
6669 Short Lane
Gloucester, VA 23061-4410
Phone: (804) 693-6694 Fax: (804) 693-9032
<http://www.fws.gov/northeast/virginiafield/>

In Reply Refer To:
Consultation Code: 05E2VA00-2020-SLI-6070
Event Code: 05E2VA00-2020-E-16874
Project Name: Alternative 2

September 11, 2020

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*). Any activity proposed on National Wildlife Refuge lands must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered

species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF>

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (<http://www.fws.gov/windenergy/>) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm>; <http://www.towerkill.com>; and <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List
 - USFWS National Wildlife Refuges and Fish Hatcheries
-

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Virginia Ecological Services Field Office

6669 Short Lane

Gloucester, VA 23061-4410

(804) 693-6694

Project Summary

Consultation Code: 05E2VA00-2020-SLI-6070

Event Code: 05E2VA00-2020-E-16874

Project Name: Alternative 2

Project Type: ** OTHER **

Project Description: Regional Distribution Center Development

Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/place/37.788394760325986N77.44741630688797W>



Counties: Hanover, VA

Endangered Species Act Species

There is a total of 2 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

-
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME	STATUS
Northern Long-eared Bat <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045	Threatened

Clams

NAME	STATUS
Yellow Lance <i>Elliptio lanceolata</i> There is proposed critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/4511	Threatened

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

USFWS National Wildlife Refuge Lands And Fish Hatcheries

Any activity proposed on lands managed by the [National Wildlife Refuge](#) system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.

Site Location

37,47,18.7 -77,26,53.0
is the Search Point

Show Position Rings

☒ Yes ☐ No

1 mile and 1/4 mile at the
Search Point

Show Search Area

☒ Yes ☐ No

2 Search distance miles
radius

Search Point is at
map center

Base Map Choices

BW Aerial Photography ▼

Map Overlay Choices

Current List: Position, Search,
BECAR, BAEANests,
TEWaters, TierII, Habitat,
Trout, Anadromous

Map Overlay Legend

T & E Waters

Federal

State

Predicted Habitat

WAP Tier I & II

Aquatic

Terrestrial

Trout Waters

Class I - IV

Class V - VI

Anadromous Fish Reach

Confirmed

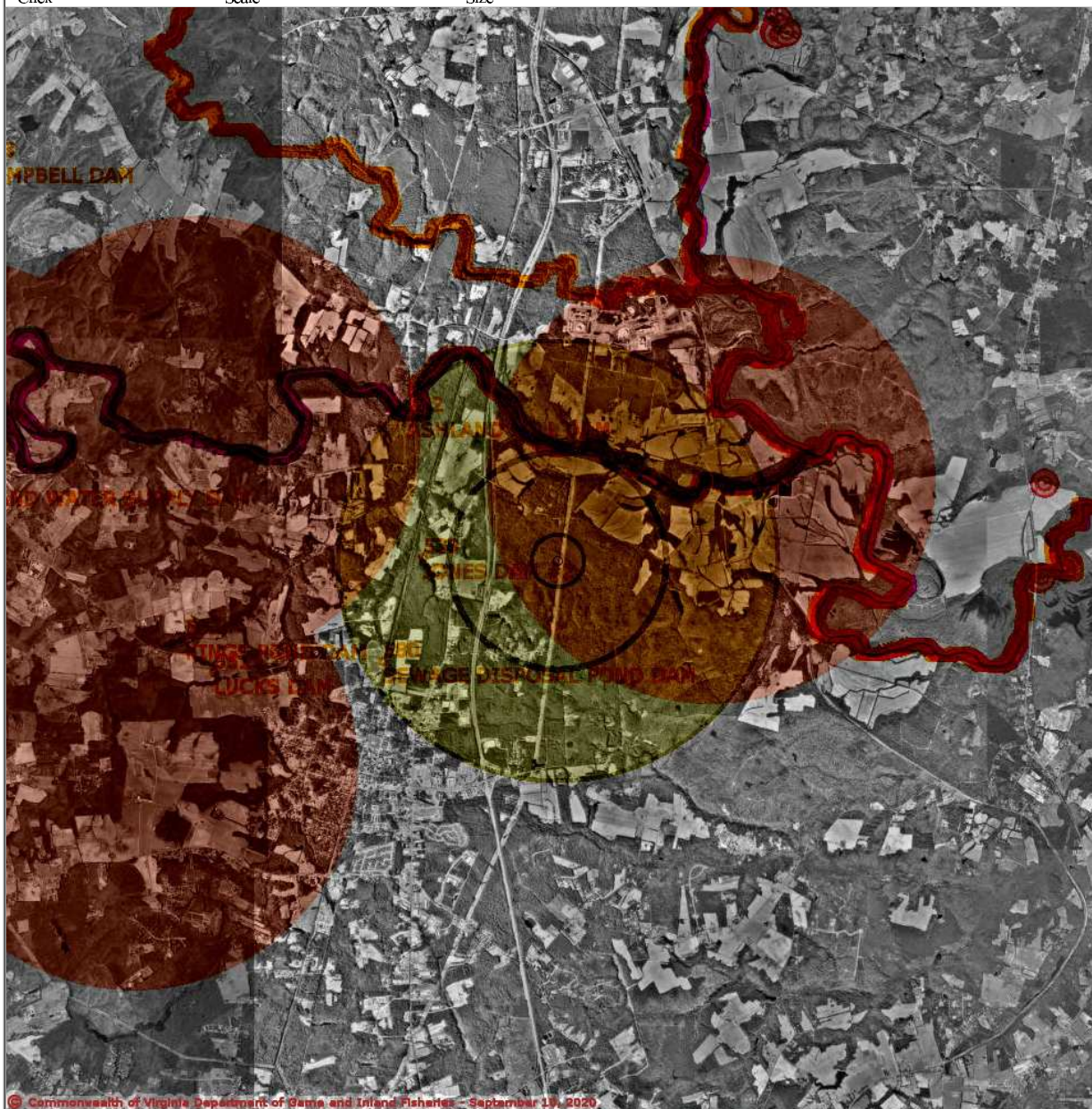
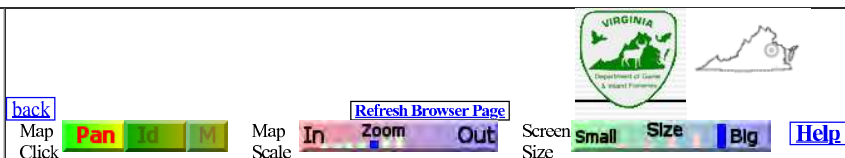
Potential

Impediment

Position Rings
1 mile and 1/4
mile at the
Search Point

2 mile radius
Search Area

Bald Eagle
Concentration Areas
and Roosts



© Commonwealth of Virginia Department of Game and Inland Fisheries - September 19, 2020

Point of Search 37,47,18.7 -77,26,53.0

Map Location 37,47,18.7 -77,26,53.0

Select **Coordinate System:** ☒ Degrees, Minutes, Seconds Latitude - Longitude

☐ Decimal Degrees Latitude - Longitude

☐ Meters UTM NAD83 East North Zone

☐ Meters UTM NAD27 East North Zone

Base Map source: Black & White USGS Aerial Photography (see [Microsoft.terraserver-usa.com](https://microsoft.terraserver-usa.com) for details)

Map projection is UTM Zone 18 NAD 1983 with left 276437 and top 4193175. Pixel size is 16 meters. Coordinates displayed are Degrees, Minutes, Seconds North and West. Map is currently displayed as 1000 columns by 1000 rows for a total of 1000000 pixels. The map display represents 16000 meters east to west by 16000 meters north to south for a total of 256.0 square kilometers. The map display represents 52502 feet east to west by 52502 feet north to south for a total of 98.8 square miles.

VaFWIS Initial Project Assessment Report Compiled on 9/10/2020, 10:07:43 AM[Help](#)

Known or likely to occur within a **2 mile radius around point 37.7885278 -77.4480556**
in **085 Hanover County, VA**

[View Map of
Site Location](#)

443 Known or Likely Species ordered by Status Concern for Conservation
(displaying first 20) (19 species with Status* or Tier I** or Tier II**)

BOVA Code	Status*	Tier**	Common Name	Scientific Name	Confirmed	Database(s)
060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	Yes	BOVA,TEWaters,Habitat,SppObs
010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes	BOVA,TEWaters
050022	FTST	Ia	Bat, northern long-eared	Myotis septentrionalis		BOVA
060029	FTST	IIa	Lance, yellow	Elliptio lanceolata		BOVA
050020	SE	Ia	Bat, little brown	Myotis lucifugus		BOVA
050034	SE	Ia	Bat, Rafinesque's eastern big-eared	Corynorhinus rafinesquii macrotis		BOVA
050027	SE	Ia	Bat, tri-colored	Perimyotis subflavus		BOVA
040293	ST	Ia	Shrike, loggerhead	Lanius ludovicianus		BOVA
060081	ST	IIa	Floater, green	Lasmigona subviridis		BOVA
040292	ST		Shrike, migrant loggerhead	Lanius ludovicianus migrans		BOVA
030063	CC	IIIa	Turtle, spotted	Clemmys guttata		BOVA
040052		IIa	Duck, American black	Anas rubripes		BOVA
040029		IIa	Heron, little blue	Egretta caerulea caerulea		BOVA
040036		IIa	Night-heron, yellow-crowned	Nyctanassa violacea violacea		BOVA
040320		IIa	Warbler, cerulean	Setophaga cerulea		BOVA
040140		IIa	Woodcock, American	Scolopax minor		BOVA
060071		IIa	Lampmussel, yellow	Lampsilis cariosa		BOVA
040203		IIb	Cuckoo, black-billed	Coccyzus erythrophthalmus		BOVA
040105		IIb	Rail, king	Rallus elegans		BOVA
010131		IIIa	Eel, American	Anguilla rostrata	Yes	BOVA,SppObs

To view **All 443 species** [View 443](#)

*FE=Federal Endangered; FT=Federal Threatened; SE=State Endangered; ST=State Threatened; FP=Federal Proposed;
FC=Federal Candidate; CC=Collection Concern

**I=VA Wildlife Action Plan - Tier I - Critical Conservation Need; II=VA Wildlife Action Plan - Tier II - Very High Conservation Need;
III=VA Wildlife Action Plan - Tier III - High Conservation Need; IV=VA Wildlife Action Plan - Tier IV - Moderate Conservation Need
Virginia Wildlife Action Plan Conservation Opportunity Ranking:

- a - On the ground management strategies/actions exist and can be feasibly implemented.;
- b - On the ground actions or research needs have been identified but cannot feasibly be implemented at this time.;
- c - No on the ground actions or research needs have been identified or all identified conservation opportunities have been exhausted.

Bat Colonies or Hibernacula: **Not Known**

Anadromous Fish Use Streams (1 records)

[View Map of All
Anadromous Fish Use Streams](#)

Stream ID	Stream Name	Reach Status	Anadromous Fish Species			View Map
			Different Species	Highest TE *	Highest Tier **	
C70	South Anna river	Confirmed	5		IV	Yes

Impediments to Fish Passage (2 records)

[View Map of All
Fish Impediments](#)

ID	Name	River	View Map
539	JONES DAM #2	TR-FALLING CREEK	Yes
580	SEWAGE DISPOSAL POND DAM	TR-FALLING CREEK	Yes

Colonial Water Bird Survey

N/A

Threatened and Endangered Waters (19 Reaches)

[View Map of All
Threatened and Endangered Waters](#)

Stream Name	T&E Waters Species						View Map
	Highest TE [*]	BOVA Code, Status [*] , Tier ^{**} , Common & Scientific Name					
(07000020)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
South Anna River (0105590)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0106358)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0108216)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0108388)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0110888)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes

		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0115059)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0117327)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0129385)	FESE	060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	Yes
South Anna River (0130948)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0130969)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0139140)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0139246)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0139293)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0141774)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0143639)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0144988)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	

South Anna River (0146962)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0148520)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	

Managed Trout Streams

N/A

Bald Eagle Concentration Areas and Roosts

N/A

Bald Eagle Nests

N/A

Habitat Predicted for Aquatic WAP Tier I & II Species (1 Reach)[View Map Combined Reaches from Below of Habitat Predicted for WAP Tier I & II Aquatic Species](#)

Stream Name	Tier Species						View Map
	Highest TE [*]	BOVA Code, Status [*] , Tier ^{**} , Common & Scientific Name					
South Anna River (20801061)	FESE	060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	Yes
South Anna River (20801061)	FESE	060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	Yes

Habitat Predicted for Terrestrial WAP Tier I & II Species

N/A

Public Holdings:

N/A

Compiled on 9/10/2020, 10:07:43 AM I1053013.0 report=IPA searchType= R dist= 3218.688 poi= 37.7885278 -77.4480556

PixelSize=64; Anadromous=0.034763; BECAR=0.022723; Bats=0.023261; Buffer=0.097893; County=0.089683; Impediments=0.034781; Init=0.15532; PublicLands=0.033294; SppObs=0.242659; TEWaters=0.042931; TierReaches=0.068958; TierTerrestrial=0.046187; Total=1.044067; Tracking_BOVA=0.194324; Trout=0.032196

Threatened and Endangered Waters where Wedgemussel, dwarf (060003) observed

37,47,18.7 -77,26,53.0
is the Search Point

Show Position Rings

☐ Yes ☒ No
1/2 mile and 1/8 mile at the
Search Point

Show Search Area

☒ Yes ☐ No
2 Search distance miles
radius

Search Point is at
map center

Base Map Choices

BW Aerial Photography ▼

Map Overlay Choices

Current List: Search,
TEWaters

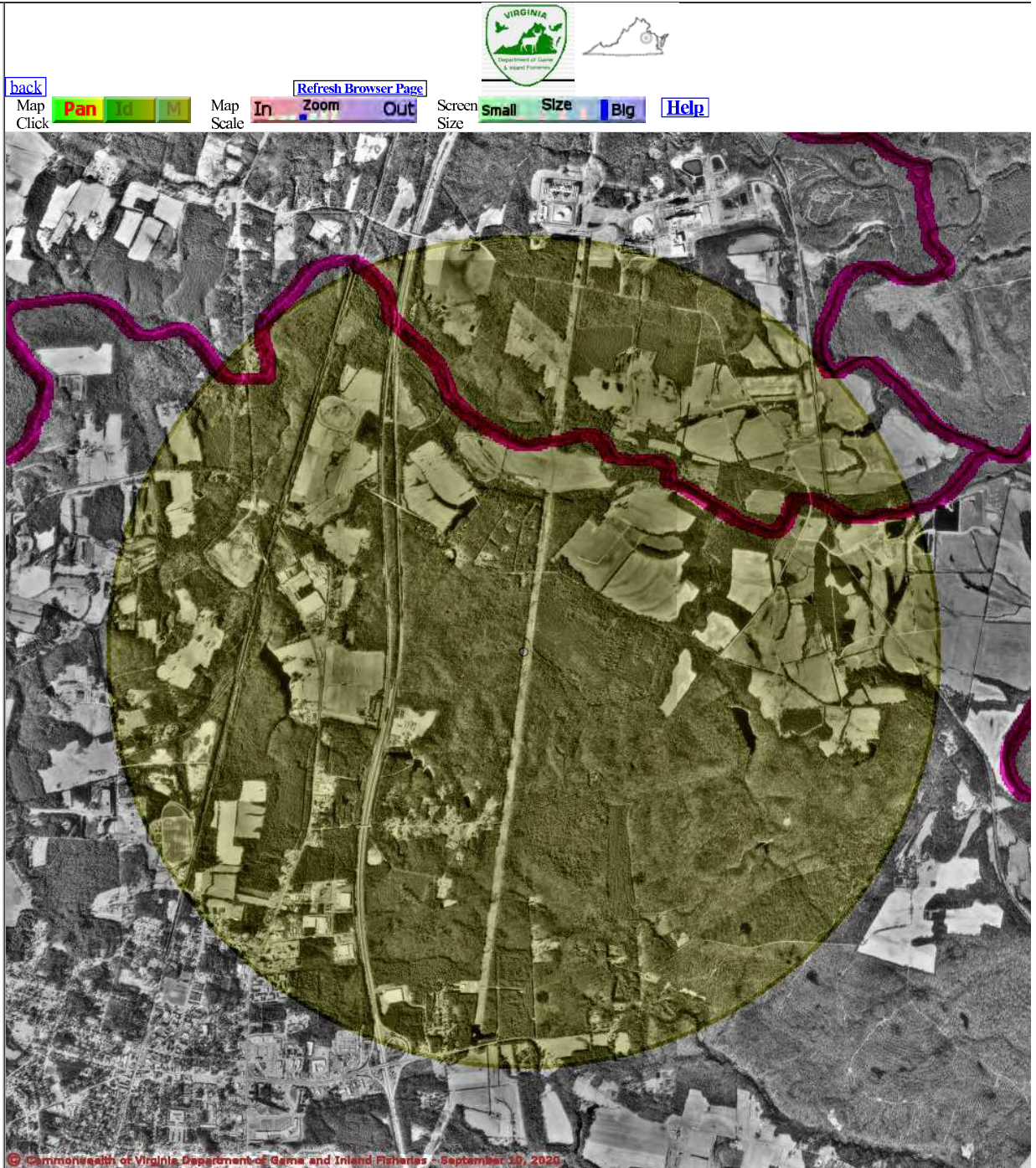
Map Overlay Legend

T & E Waters

Federal

State

2 mile radius
Search Area



© Commonwealth of Virginia Department of Game and Inland Fisheries - September 22, 2020

500 0 500 1000 1500 2000 Meters
2000 0 2000 4000 6000 8000 Feet

Point of Search 37,47,18.7 -77,26,53.0

Map Location 37,47,18.7 -77,26,53.0

Select **Coordinate System:** ☒ Degrees, Minutes, Seconds Latitude - Longitude

☐ Decimal Degrees Latitude - Longitude

☐ Meters UTM NAD83 East North Zone

☐ Meters UTM NAD27 East North Zone

Base Map source: Black & White USGS Aerial Photography (see [Microsoft.terraserver-usa.com](https://microsoft.terraserver-usa.com) for details)

Map projection is UTM Zone 18 NAD 1983 with left 280437 and top 4189175. Pixel size is 8 meters. Coordinates displayed are Degrees, Minutes, Seconds North and West. Map is currently displayed as 1000 columns by 1000 rows for a total of 1000000 pixels. The map display represents 8000 meters east to west by 8000 meters north to south for a total of 64.0 square kilometers. The map display represents 26251 feet east to west by 26251 feet north to south for a total of 24.7 square miles.



Virginia Department of Game and Inland Fisheries

9/10/2020 1:55:30 PM

Fish and Wildlife Information Service

VaFWIS Search Report Compiled on 9/10/2020, 1:55:30 PM

[Help](#)

Known or likely to occur within a **2 mile radius around point 37,47,18.7 -77,26,53.0**
 in **085 Hanover County, VA**
 where (060003) [Wedgemussel, dwarf](#) observed.

[View Map of Site Location](#)

Threatened and Endangered Waters where Wedgemussel, dwarf (060003) observed

(18 Reaches)

[View Map of All Threatened and Endangered Waters](#)

Stream Name	T&E Waters Species						View Map
	Highest TE*	BOVA Code, Status*, Tier**, Common & Scientific Name					
South Anna River (0105590.)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0106358.)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0108216.)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0108388.)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0110888.)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0115059.)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River	FESE	010032	FESE	Ib	Sturgeon,	Acipenser	Yes

(0117327.)					Atlantic	oxyrinchus	
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0129385.)	FESE	060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	Yes
South Anna River (0130948.)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0130969.)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0139140.)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0139246.)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0139293.)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0141774.)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0143639.)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0144988.)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0146962.)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0148520.)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes

		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
--	--	--------	------	----	------------------------------------	-----------------------	--

*FE=Federal Endangered; FT=Federal Threatened; SE=State Endangered; ST=State Threatened; FP=Federal Proposed; FC=Federal Candidate; CC=Collection Concern

**I=VA Wildlife Action Plan - Tier I - Critical Conservation Need;

II=VA Wildlife Action Plan - Tier II - Very High Conservation Need;

III=VA Wildlife Action Plan - Tier III - High Conservation Need;

IV=VA Wildlife Action Plan - Tier IV - Moderate Conservation Need

Virginia Wildlife Action Plan Conservation Opportunity Ranking:

a - On the ground management strategies/actions exist and can be feasibly implemented.;

b - On the ground actions or research needs have been identified but cannot feasibly be implemented at this time.;

c - No on the ground actions or research needs have been identified or all identified conservation opportunities have been exhausted.

Species Observations where Wedgemussel, dwarf (060003) observed

(1 records , 1 Observation with
Threatened or Endangered species)

[View Map of All Query Results](#)

[Species Observations where Wedgemussel, dwarf \(060003\) observed](#)

obsID	class	Date Observed	Observer	N Species			View Map
				Different Species	Highest TE [*]	Highest Tier ^{**}	
3048	SppObs	Jan 1 1973	M. B. Riddick, 1973	1	FESE	I	Yes

Displayed 1 Species Observations where Wedgemussel, dwarf (060003) observed

Habitat Predicted for Aquatic WAP Tier I & II Species where Wedgemussel, dwarf (060003) observed

(1 Reach)

[View Map Combined Reaches from Below of Habitat Predicted for WAP Tier I & II Aquatic Species](#)

Stream Name	Tier Species						View Map
	Highest TE*	BOVA Code, Status*, Tier**, Common & Scientific Name					
South Anna River (20801061)	FESE	060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	Yes
South Anna River (20801061)	FESE	060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	Yes

Habitat Predicted for Terrestrial WAP Tier I & II Species where Wedgemussel, dwarf (060003) observed

N/A

Compiled on 9/10/2020, 1:55:31 PM I1053079.1 report=BOVA searchType= R dist= 3218.688 poi= 37,47,18.7 -77,26,53.0

audit no. 1053079 9/10/2020 1:55:31 PM Virginia Fish and Wildlife Information Service

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Threatened and Endangered Waters where Sturgeon, Atlantic (010032) observed

37,47,18.7 -77,26,53.0
is the Search Point

Show Position Rings

☐ Yes ☒ No

1/2 mile and 1/8 mile at the
Search Point

Show Search Area

☒ Yes ☐ No

2 Search distance miles
radius

Search Point is at
map center

Base Map Choices

BW Aerial Photography ▼

Map Overlay Choices

Current List: Search,
TEWaters

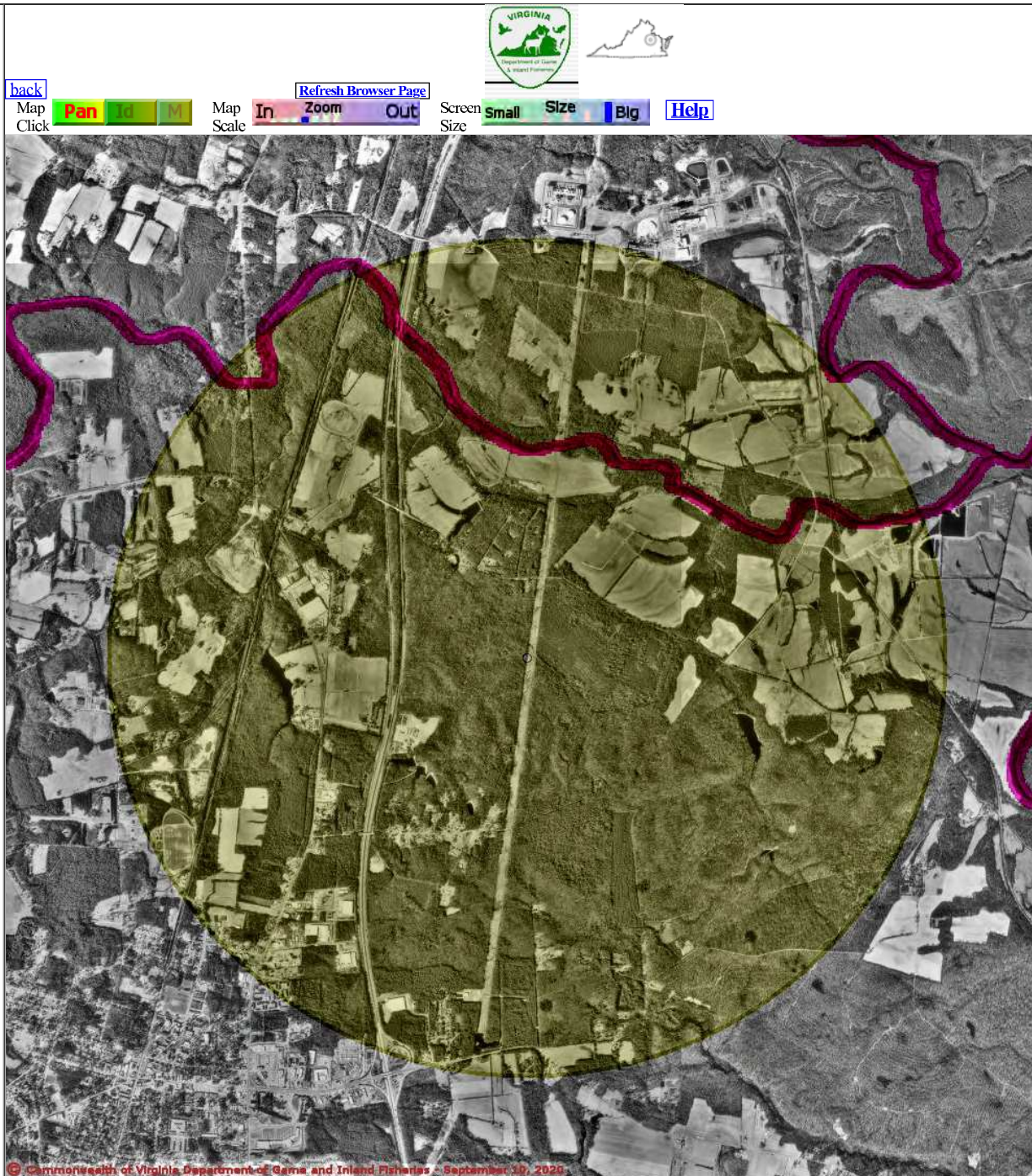
Map Overlay Legend

T & E Waters

Federal

State

2 mile radius
Search Area



© Commonwealth of Virginia Department of Game and Inland Fisheries - September 22, 2020

500 0 500 1000 1500 2000 Meters
2000 0 2000 4000 6000 8000 Feet

Point of Search 37,47,18.7 -77,26,53.0

Map Location 37,47,18.7 -77,26,53.0

Select **Coordinate System:** ☒ Degrees, Minutes, Seconds Latitude - Longitude

☐ Decimal Degrees Latitude - Longitude

☐ Meters UTM NAD83 East North Zone

☐ Meters UTM NAD27 East North Zone

Base Map source: Black & White USGS Aerial Photography (see [Microsoft.terraserver-usa.com](https://microsoft.terraserver-usa.com) for details)

Map projection is UTM Zone 18 NAD 1983 with left 280437 and top 4189175. Pixel size is 8 meters. Coordinates displayed are Degrees, Minutes, Seconds North and West. Map is currently displayed as 1000 columns by 1000 rows for a total of 1000000 pixels. The map display represents 8000 meters east to west by 8000 meters north to south for a total of 64.0 square kilometers. The map display represents 26251 feet east to west by 26251 feet north to south for a total of 24.7 square miles.



Virginia Department of Game and Inland Fisheries

9/10/2020 1:56:42 PM

Fish and Wildlife Information Service

VaFWIS Search Report Compiled on 9/10/2020, 1:56:42 PM

[Help](#)

Known or likely to occur within a **2 mile radius around point 37,47,18.7 -77,26,53.0**
 in **085 Hanover County, VA**
 where (010032) [Sturgeon, Atlantic](#) observed.

[View Map of
Site Location](#)

Threatened and Endangered Waters where Sturgeon, Atlantic (010032) observed

(18 Reaches)

[View Map of All
Threatened and Endangered Waters](#)

Stream Name	T&E Waters Species						View Map
	Highest TE*	BOVA Code, Status*, Tier**, Common & Scientific Name					
(07000020)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
South Anna River (0105590)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0106358)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0108216)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0108388)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0110888)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0115059)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta	

					dwarf	heterodon	
South Anna River (0117327)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0130948)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0130969)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0139140)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0139246)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0139293)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0141774)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0143639)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0144988)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0146962)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0148520)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes

		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
--	--	--------	------	----	--	--------------------------	--

*FE=Federal Endangered; FT=Federal Threatened; SE=State Endangered; ST=State Threatened; FP=Federal Proposed;
FC=Federal Candidate; CC=Collection Concern

**I=VA Wildlife Action Plan - Tier I - Critical Conservation Need;

II=VA Wildlife Action Plan - Tier II - Very High Conservation Need;

III=VA Wildlife Action Plan - Tier III - High Conservation Need;

IV=VA Wildlife Action Plan - Tier IV - Moderate Conservation Need

Virginia Wildlife Action Plan Conservation Opportunity Ranking:

a - On the ground management strategies/actions exist and can be feasibly implemented.;

b - On the ground actions or research needs have been identified but cannot feasibly be implemented at this time.;

c - No on the ground actions or research needs have been identified or all identified conservation opportunities have been exhausted.

Compiled on 9/10/2020, 1:56:42 PM 11053079.1 report=BOVA searchType= R dist= 3218.688 poi= 37,47,18.7 -77,26,53.0

audit no. 1053079 9/10/2020 1:56:42 PM Virginia Fish and Wildlife Information Service

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Natural Heritage Resources

Your Criteria

- Taxonomic Group: Select All
- Global Conservation Status Rank: Select All
- State Conservation Status Rank: Select All
- Federal Legal Status: Select All
- State Legal Status: Select All
- Watershed (8 digit HUC): 02080106 - Pamunkey River
- Subwatershed (12 digit HUC): YO11 - South Anna River-Cedar Creek

Search Run: 9/10/2020 10:14:55 AM

Result Summary

Total Species returned: 5
Total Communities returned: 0

Click scientific names below to go to NatureServe report.

Click column headings for an explanation of species and community ranks.

Common Name/Natural Community	Scientific Name	Scientific Name Linked	Global Conservation Status Rank	State Conservation Status Rank	Federal Legal Status	State Legal Status	Statewide Occurrences	Virginia Coastal Zone
Pamunkey								
South Anna River-Cedar Creek								
AMPHIBIANS								
Tiger Salamander	Ambystoma tigrinum	Ambystoma tigrinum	G5	S1	None	LE	13	Y
BIVALVIA (MUSSELS)								
Dwarf Wedgemussel	Alasmidonta heterodon	Alasmidonta heterodon	G1G2	S1	LE	LE	15	Y
Yellow Lance	Elliptio lanceolata	Elliptio lanceolata	G2	S2	LT	LT	47	Y
Green Floater	Lasmigona subviridis	Lasmigona subviridis	G3	S2	None	LT	65	Y
VASCULAR PLANTS								
Small Whorled Pogonia	Isotria medeoloides	Isotria medeoloides	G2G3	S2	LT	LE	60	Y

Note: On-line queries provide basic information from DCR's databases at the time of the request. They are NOT to be substituted for a project review or for on-site surveys required for environmental assessments of specific project areas.

For Additional Information on locations of Natural Heritage Resources please submit an [information request](#).

To Contribute information on locations of natural heritage resources, please fill out and submit a [rare species sighting form](#).

Alternative 3
Archie Cannon Site



United States Department of the Interior



FISH AND WILDLIFE SERVICE
Virginia Ecological Services Field Office
6669 Short Lane
Gloucester, VA 23061-4410
Phone: (804) 693-6694 Fax: (804) 693-9032
<http://www.fws.gov/northeast/virginiafield/>

In Reply Refer To:
Consultation Code: 05E2VA00-2020-SLI-6068
Event Code: 05E2VA00-2020-E-16867
Project Name: Alternative 3

September 11, 2020

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*). Any activity proposed on National Wildlife Refuge lands must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered

species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF>

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (<http://www.fws.gov/windenergy/>) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm>; <http://www.towerkill.com>; and <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List
 - USFWS National Wildlife Refuges and Fish Hatcheries
-

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Virginia Ecological Services Field Office

6669 Short Lane

Gloucester, VA 23061-4410

(804) 693-6694

Project Summary

Consultation Code: 05E2VA00-2020-SLI-6068

Event Code: 05E2VA00-2020-E-16867

Project Name: Alternative 3

Project Type: ** OTHER **

Project Description: Regional Distribution Center Development

Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/place/37.78112879207323N77.47018237416157W>



Counties: Hanover, VA

Endangered Species Act Species

There is a total of 2 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

-
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME	STATUS
Northern Long-eared Bat <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045	Threatened

Clams

NAME	STATUS
Yellow Lance <i>Elliptio lanceolata</i> There is proposed critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/4511	Threatened

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

USFWS National Wildlife Refuge Lands And Fish Hatcheries

Any activity proposed on lands managed by the [National Wildlife Refuge](#) system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.

Site Location

37,46,44.4 -77,28,15.0
is the Search Point

Show Position Rings

☒ Yes ☐ No

1/2 mile and 1/8 mile at the
Search Point

Show Search Area

☒ Yes ☐ No

2 Search distance miles
radius

Search Point is at
map center

Base Map Choices

BW Aerial Photography ▼

Map Overlay Choices

Current List: Position, Search,
BECAR, BAEANests,
TEWaters, TierII, Habitat,
Trout, Anadromous

Map Overlay Legend

T & E Waters

Federal

State

Predicted Habitat
WAP Tier I & II

Aquatic

Terrestrial

Trout Waters

Class I - IV

Class V - VI

Anadromous Fish Reach

Confirmed

Potential

Impediment

Position Rings
1/2 mile and 1/8 mile at the
Search Point

2 mile radius
Search Area

Bald Eagle
Concentration Areas
and Roosts

Point of Search 37,46,44.4 -77,28,15.0

Map Location 37,46,44.4 -77,28,15.0

Select **Coordinate System**: ☒ Degrees, Minutes, Seconds Latitude - Longitude

☐ Decimal Degrees Latitude - Longitude

☐ Meters UTM NAD83 East North Zone

☐ Meters UTM NAD27 East North Zone

Base Map source: Black & White USGS Aerial Photography (see [Microsoft.terraserver-usa.com](https://microsoft.terraserver-usa.com) for details)

Map projection is UTM Zone 18 NAD 1983 with left 278403 and top 4188170. Pixel size is 8 meters. Coordinates displayed are Degrees, Minutes, Seconds North and West. Map is currently displayed as 1000 columns by 1000 rows for a total of 1,000,000 pixels. The map display represents 8000 meters east to west by 8000 meters north to south for a total of 64.0 square kilometers. The map display represents 26251 feet east to west by 26251 feet north to south for a total of 24.7 square miles.

VaFWIS Initial Project Assessment Report Compiled on 9/10/2020, 1:34:46 PM[Help](#)

Known or likely to occur within a **2 mile radius around point 37,46,43.4 -77,28,15.8**
in **085 Hanover County, VA**

[View Map of
Site Location](#)

444 Known or Likely Species ordered by Status Concern for Conservation
(displaying first 20) (19 species with Status* or Tier I** or Tier II**)

BOVA Code	Status*	Tier**	Common Name	Scientific Name	Confirmed	Database(s)
060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon		BOVA
010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus		BOVA
050022	FTST	Ia	Bat, northern long-eared	Myotis septentrionalis		BOVA
060029	FTST	Ila	Lance, yellow	Elliptio lanceolata		BOVA
050020	SE	Ia	Bat, little brown	Myotis lucifugus		BOVA
050034	SE	Ia	Bat, Rafinesque's eastern big-eared	Corynorhinus rafinesquii macrotis		BOVA
050027	SE	Ia	Bat, tri-colored	Perimyotis subflavus		BOVA
040293	ST	Ia	Shrike, loggerhead	Lanius ludovicianus		BOVA
060081	ST	Ila	Floater, green	Lasmigona subviridis		BOVA
040292	ST		Shrike, migrant loggerhead	Lanius ludovicianus migrans		BOVA
030063	CC	IIIa	Turtle, spotted	Clemmys guttata		BOVA
040052		Ila	Duck, American black	Anas rubripes		BOVA
040029		Ila	Heron, little blue	Egretta caerulea caerulea		BOVA
040036		Ila	Night-heron, yellow-crowned	Nyctanassa violacea violacea		BOVA
040320		Ila	Warbler, cerulean	Setophaga cerulea		BOVA
040140		Ila	Woodcock, American	Scolopax minor		BOVA
060071		Ila	Lampmussel, yellow	Lampsilis cariosa		BOVA
040203		Iib	Cuckoo, black-billed	Coccyzus erythrophthalmus		BOVA
040105		Iib	Rail, king	Rallus elegans		BOVA
010131		IIIa	Eel, American	Anguilla rostrata	Yes	BOVA,SppObs

To view **All 444 species** [View 444](#)

*FE=Federal Endangered; FT=Federal Threatened; SE=State Endangered; ST=State Threatened; FP=Federal Proposed;
FC=Federal Candidate; CC=Collection Concern

**I=VA Wildlife Action Plan - Tier I - Critical Conservation Need; II=VA Wildlife Action Plan - Tier II - Very High Conservation Need;
III=VA Wildlife Action Plan - Tier III - High Conservation Need; IV=VA Wildlife Action Plan - Tier IV - Moderate Conservation Need
Virginia Wildlife Action Plan Conservation Opportunity Ranking:

a - On the ground management strategies/actions exist and can be feasibly implemented.;

b - On the ground actions or research needs have been identified but cannot feasibly be implemented at this time.;

c - No on the ground actions or research needs have been identified or all identified conservation opportunities have been exhausted.

Bat Colonies or Hibernacula: **Not Known**

Anadromous Fish Use Streams

N/A

Colonial Water Bird Survey

N/A

Threatened and Endangered Waters

N/A

Managed Trout Streams

N/A

Bald Eagle Concentration Areas and Roosts

N/A

Bald Eagle Nests

N/A

Habitat Predicted for Aquatic WAP Tier I & II Species

N/A

Habitat Predicted for Terrestrial WAP Tier I & II Species

N/A

Public Holdings:

N/A

Compiled on 9/10/2020, 1:34:46 PM I1053071.0 report=IPA searchType= R dist= 3218.688 poi= 37,46,43.4 -77,28,15.8
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TierReaches=0.033781; TierTerrestrial=0.048283; Total=1.025094; Tracking_BOVA=0.20416; Trout=0.031745

Natural Heritage Resources

Your Criteria

- Taxonomic Group: Select All
- Global Conservation Status Rank: Select All
- State Conservation Status Rank: Select All
- Federal Legal Status: Select All
- State Legal Status: Select All
- Watershed (8 digit HUC): 02080106 - Pamunkey River
- Subwatershed (12 digit HUC): YO11 - South Anna River-Cedar Creek

Search Run: 9/10/2020 11:00:13 AM

Result Summary

Total Species returned: 5

Total Communities returned: 0

Click scientific names below to go to NatureServe report.

Click column headings for an explanation of species and community ranks.

Common Name/Natural Community	Scientific Name	Scientific Name Linked	Global Conservation Status Rank	State Conservation Status Rank	Federal Legal Status	State Legal Status	Statewide Occurrences	Virginia Coastal Zone
Pamunkey								
South Anna River-Cedar Creek								
AMPHIBIANS								
Tiger Salamander	Ambystoma tigrinum	Ambystoma tigrinum	G5	S1	None	LE	13	Y
BIVALVIA (MUSSELS)								
Dwarf Wedgemussel	Alasmidonta heterodon	Alasmidonta heterodon	G1G2	S1	LE	LE	15	Y
Yellow Lance	Elliptio lanceolata	Elliptio lanceolata	G2	S2	LT	LT	47	Y
Green Floater	Lasmigona subviridis	Lasmigona subviridis	G3	S2	None	LT	65	Y
VASCULAR PLANTS								
Small Whorled Pogonia	Isotria medeoloides	Isotria medeoloides	G2G3	S2	LT	LE	60	Y

Note: On-line queries provide basic information from DCR's databases at the time of the request. They are NOT to be substituted for a project review or for on-site surveys required for environmental assessments of specific project areas.

For Additional Information on locations of Natural Heritage Resources please submit an [information request](#).

To Contribute information on locations of natural heritage resources, please fill out and submit a [rare species sighting form](#).

**Alternative 4
Graymont Site**



United States Department of the Interior



FISH AND WILDLIFE SERVICE
Virginia Ecological Services Field Office
6669 Short Lane
Gloucester, VA 23061-4410
Phone: (804) 693-6694 Fax: (804) 693-9032
<http://www.fws.gov/northeast/virginiafield/>

In Reply Refer To:
Consultation Code: 05E2VA00-2020-SLI-6071
Event Code: 05E2VA00-2020-E-16876
Project Name: Alternative 4

September 11, 2020

Subject: List of threatened and endangered species that may occur in your proposed project location, and/or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*). Any activity proposed on National Wildlife Refuge lands must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered

species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

<http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF>

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the wind energy guidelines (<http://www.fws.gov/windenergy/>) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm>; <http://www.towerkill.com>; and <http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List
 - USFWS National Wildlife Refuges and Fish Hatcheries
-

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Virginia Ecological Services Field Office

6669 Short Lane

Gloucester, VA 23061-4410

(804) 693-6694

Project Summary

Consultation Code: 05E2VA00-2020-SLI-6071

Event Code: 05E2VA00-2020-E-16876

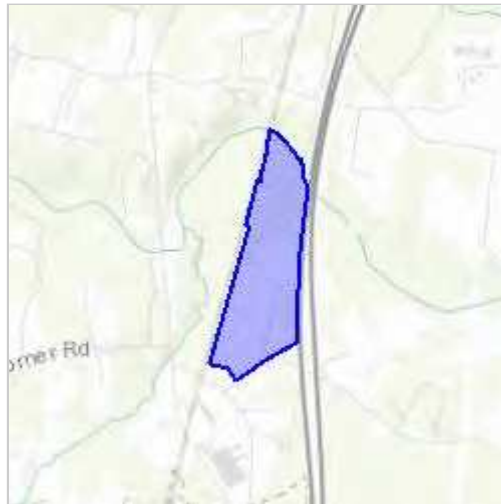
Project Name: Alternative 4

Project Type: ** OTHER **

Project Description: Regional Distribution Center Development

Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/place/37.80680608244821N77.46374581551083W>



Counties: Hanover, VA

Endangered Species Act Species

There is a total of 3 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

-
1. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME	STATUS
Northern Long-eared Bat <i>Myotis septentrionalis</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045	Threatened

Clams

NAME	STATUS
Dwarf Wedgemussel <i>Alasmodonta heterodon</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/784	Endangered
Yellow Lance <i>Elliptio lanceolata</i> There is proposed critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/4511	Threatened

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

USFWS National Wildlife Refuge Lands And Fish Hatcheries

Any activity proposed on lands managed by the [National Wildlife Refuge](#) system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.

Site Location

37,48,13.9 -77,27,54.4
is the Search Point

Show Position Rings

☒ Yes ☐ No
1/2 mile and 1/8 mile at the
Search Point

Show Search Area

☒ Yes ☐ No
2 Search distance miles
radius

Search Point is at
map center

Base Map Choices

BW Aerial Photography ▼

Map Overlay Choices

Current List: Position, Search,
BECAR, BAEANests,
TEWaters, TierII, Habitat,
Trout, Anadromous

Map Overlay Legend

T & E Waters

Federal

State

Predicted Habitat
WAP Tier I & II

Aquatic

Terrestrial

Trout Waters

Class I - IV

Class V - VI

Anadromous Fish Reach

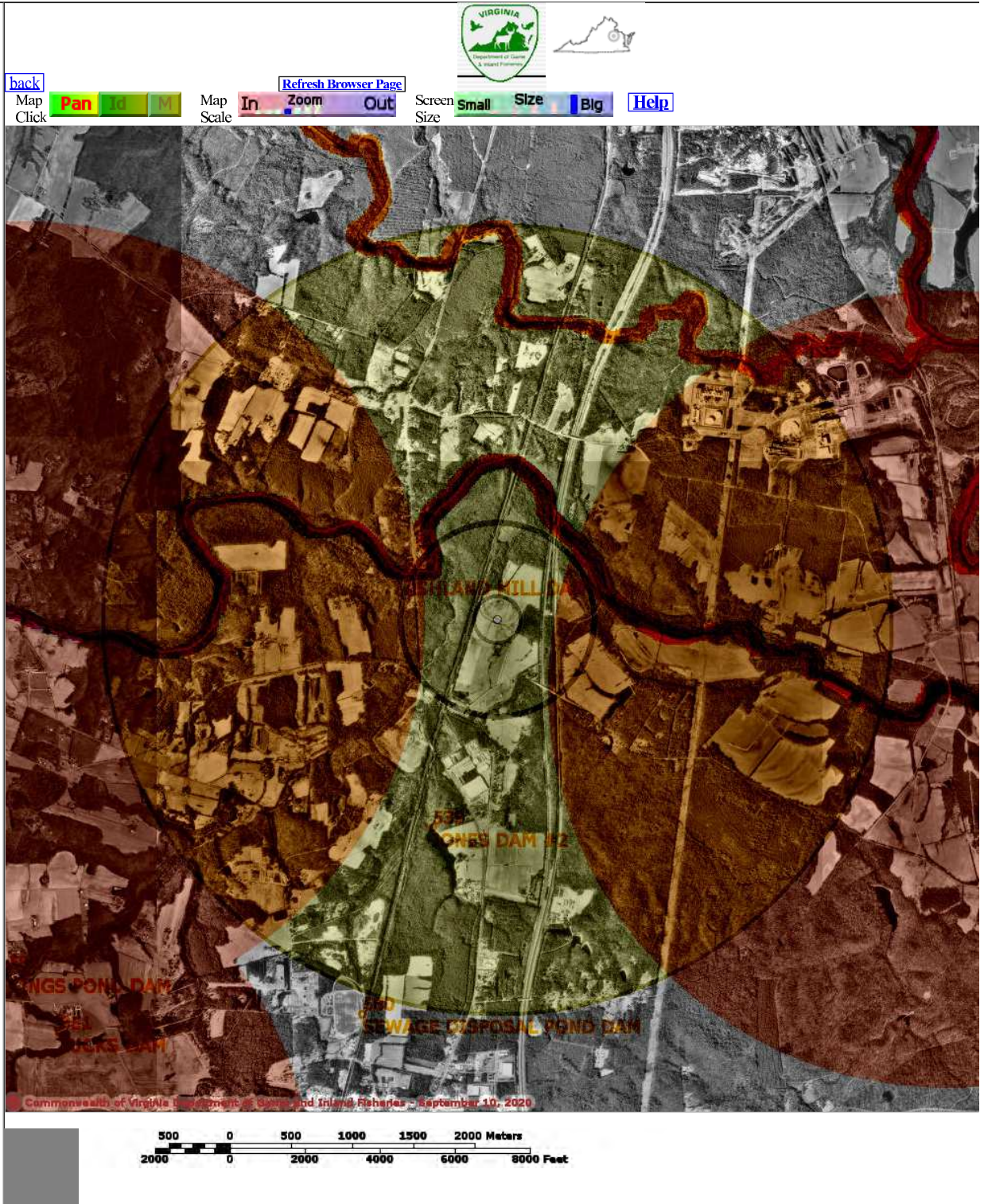
Confirmed

Potential

Impediment

Position Rings
1/2 mile and
1/8 mile at the
Search Point

2 mile radius
Search Area

Bald Eagle
Concentration Areas
and Roosts

Point of Search 37,48,13.9 -77,27,54.4

Map Location 37,48,13.9 -77,27,54.4

Select **Coordinate System**: ☒ Degrees, Minutes, Seconds Latitude - Longitude

☐ Decimal Degrees Latitude - Longitude

☐ Meters UTM NAD83 East North Zone

☐ Meters UTM NAD27 East North Zone

Base Map source: Black & White USGS Aerial Photography (see [Microsoft.terraserver-usa.com](https://microsoft.terraserver-usa.com) for details)

Map projection is UTM Zone 18 NAD 1983 with left 278980 and top 4190916. Pixel size is 8 meters. Coordinates displayed are Degrees, Minutes, Seconds North and West. Map is currently displayed as 1000 columns by 1000 rows for a total of 1,000,000 pixels. The map display represents 8000 meters east to west by 8000 meters north to south for a total of 64.0 square kilometers. The map display represents 26251 feet east to west by 26251 feet north to south for a total of 24.7 square miles.

VaFWIS Initial Project Assessment Report Compiled on 9/10/2020, 11:23:08 AM[Help](#)

Known or likely to occur within a **2 mile radius around point 37,48,13.9 -77,27,54.4**
in **085 Hanover County, VA**

[View Map of
Site Location](#)

443 Known or Likely Species ordered by Status Concern for Conservation
(displaying first 20) (19 species with Status* or Tier I** or Tier II**)

BOVA Code	Status*	Tier**	Common Name	Scientific Name	Confirmed	Database(s)
060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	Yes	BOVA,TEWaters,Habitat,SppObs
010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes	BOVA,TEWaters
050022	FTST	Ia	Bat, northern long-eared	Myotis septentrionalis		BOVA
060029	FTST	IIa	Lance, yellow	Elliptio lanceolata	Yes	BOVA,SppObs
050020	SE	Ia	Bat, little brown	Myotis lucifugus		BOVA
050034	SE	Ia	Bat, Rafinesque's eastern big-eared	Corynorhinus rafinesquii macrotis		BOVA
050027	SE	Ia	Bat, tri-colored	Perimyotis subflavus		BOVA
040293	ST	Ia	Shrike, loggerhead	Lanius ludovicianus		BOVA
060081	ST	IIa	Floater, green	Lasmigona subviridis		BOVA
040292	ST		Shrike, migrant loggerhead	Lanius ludovicianus migrans		BOVA
030063	CC	IIIa	Turtle, spotted	Clemmys guttata		BOVA
040052		IIa	Duck, American black	Anas rubripes		BOVA
040029		IIa	Heron, little blue	Egretta caerulea caerulea		BOVA
040036		IIa	Night-heron, yellow-crowned	Nyctanassa violacea violacea		BOVA
040320		IIa	Warbler, cerulean	Setophaga cerulea		BOVA
040140		IIa	Woodcock, American	Scolopax minor		BOVA
060071		IIa	Lampmussel, yellow	Lampsilis cariosa		BOVA
040203		IIb	Cuckoo, black-billed	Coccyzus erythrophthalmus		BOVA
040105		IIb	Rail, king	Rallus elegans		BOVA
010131		IIIa	Eel, American	Anguilla rostrata	Yes	BOVA,SppObs

To view **All 443 species** [View 443](#)

*FE=Federal Endangered; FT=Federal Threatened; SE=State Endangered; ST=State Threatened; FP=Federal Proposed;
FC=Federal Candidate; CC=Collection Concern

**I=VA Wildlife Action Plan - Tier I - Critical Conservation Need; II=VA Wildlife Action Plan - Tier II - Very High Conservation Need;
III=VA Wildlife Action Plan - Tier III - High Conservation Need; IV=VA Wildlife Action Plan - Tier IV - Moderate Conservation Need
Virginia Wildlife Action Plan Conservation Opportunity Ranking:

- a - On the ground management strategies/actions exist and can be feasibly implemented.;
- b - On the ground actions or research needs have been identified but cannot feasibly be implemented at this time.;
- c - No on the ground actions or research needs have been identified or all identified conservation opportunities have been exhausted.

Bat Colonies or Hibernacula: **Not Known**

Anadromous Fish Use Streams (2 records)

[View Map of All
Anadromous Fish Use Streams](#)

Stream ID	Stream Name	Reach Status	Anadromous Fish Species			View Map
			Different Species	Highest TE *	Highest Tier **	
C39	Little river	Confirmed	1			Yes
C70	South Anna river	Confirmed	5		IV	Yes

Impediments to Fish Passage (3 records)

[View Map of All
Fish Impediments](#)

ID	Name	River	View Map
682	ASHLAND MILL DAM	SOUTH ANNA RIVER	Yes
539	JONES DAM #2	TR-FALLING CREEK	Yes
580	SEWAGE DISPOSAL POND DAM	TR-FALLING CREEK	Yes

Colonial Water Bird Survey

N/A

Threatened and Endangered Waters (21 Reaches - displaying first 20)

[View Map of All
Threatened and Endangered Waters](#)

Stream Name	T&E Waters Species						View Map
	Highest TE*	BOVA Code, Status*, Tier**, Common & Scientific Name					
(07000020)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
South Anna River (0105590)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0108216)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0110888)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0112541)	FESE	060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	Yes
South Anna River (0113615)	FESE	060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	Yes

South Anna River (0117327)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0117618)	FESE	060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	Yes
South Anna River (0129385)	FESE	060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	Yes
South Anna River (0130948)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0130969)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0137259)	FESE	060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	Yes
South Anna River (0139140)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0139246)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0139293)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0141774)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0143340)	FESE	060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	Yes
South Anna River (0143639)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0144988)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	

South Anna River (0146962)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0148520)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	

Managed Trout Streams

N/A

Bald Eagle Concentration Areas and Roosts

N/A

Bald Eagle Nests

N/A

Habitat Predicted for Aquatic WAP Tier I & II Species (1 Reach)[View Map Combined Reaches from Below of Habitat Predicted for WAP Tier I & II Aquatic Species](#)

Stream Name	Tier Species						View Map
	Highest TE [*]	BOVA Code, Status [*] , Tier ^{**} , Common & Scientific Name					
South Anna River (20801061)	FESE	060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	Yes
South Anna River (20801061)	FESE	060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	Yes

Habitat Predicted for Terrestrial WAP Tier I & II Species

N/A

Public Holdings:

N/A

Compiled on 9/10/2020, 11:23:08 AM I1053027.0 report=IPA searchType= R dist= 3218.688 poi= 37,48,13.9 -77,27,54.4

PixelSize=64; Anadromous=0.041668; BECAR=0.024779; Bats=0.024891; Buffer=0.096414; County=0.090971; Impediments=0.039497; Init=0.173618; PublicLands=0.03964; SppObs=0.258787; TEWaters=0.04623; TierReaches=0.067389; TierTerrestrial=0.048921; Total=1.099283; Tracking_BOVA=0.190306; Trout=0.034329

Threatened and Endangered Waters where Wedgemussel, dwarf (060003) observed

37,48,13.9 -77,27,54.4
is the Search Point

Show Position Rings

☐ Yes ☒ No
1/2 mile and 1/8 mile at the
Search Point

Show Search Area

☒ Yes ☐ No
2 Search distance miles
radius

Search Point is at
map center

Base Map Choices

BW Aerial Photography ▼

Map Overlay Choices

Current List: Search,
TEWaters

Map Overlay Legend

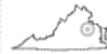
T & E Waters

Federal

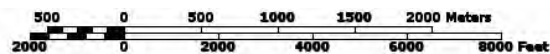
State

2 mile radius
Search Area

back Map Click **Pan** **Zoom** **Map Scale** **In** **Zoom** **Out** **Refresh Browser Page** Screen Size **Small** **Size** **Big** **Help**



Commonwealth of Virginia Department of Game and Inland Fisheries - September 10, 2020



Point of Search 37,48,13.9 -77,27,54.4

Map Location 37,48,13.9 -77,27,54.4

Select **Coordinate System:** ☒ Degrees, Minutes, Seconds Latitude - Longitude

☐ Decimal Degrees Latitude - Longitude

☐ Meters UTM NAD83 East North Zone

☐ Meters UTM NAD27 East North Zone

Base Map source: Black & White USGS Aerial Photography (see [Microsoft.terraserver-usa.com](https://microsoft.terraserver-usa.com) for details)

Map projection is UTM Zone 18 NAD 1983 with left 278980 and top 4190916. Pixel size is 8 meters. Coordinates displayed are Degrees, Minutes, Seconds North and West. Map is currently displayed as 1000 columns by 1000 rows for a total of 1000000 pixels. The map display represents 8000 meters east to west by 8000 meters north to south for a total of 64.0 square kilometers. The map display represents 26251 feet east to west by 26251 feet north to south for a total of 24.7 square miles.



Virginia Department of Game and Inland Fisheries

9/10/2020 1:26:26 PM

Fish and Wildlife Information Service

VaFWIS Search Report Compiled on 9/10/2020, 1:26:26 PM

[Help](#)

Known or likely to occur within a **2 mile radius around point 37.8038611 -77.4651111**
 in **085 Hanover County, VA**
 where (060003) [Wedgemussel, dwarf](#) observed.

[View Map of
Site Location](#)

Threatened and Endangered Waters where Wedgemussel, dwarf (060003) observed

(20 Reaches)

[View Map of All
Threatened and Endangered Waters](#)

Stream Name	T&E Waters Species						View Map
	Highest TE*	BOVA Code, Status*, Tier**, Common & Scientific Name					
South Anna River (0105590)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0108216)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0110888)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0112541)	FESE	060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	Yes
South Anna River (0113615)	FESE	060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	Yes
South Anna River (0117327)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0117618)	FESE	060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	Yes
South Anna River (0129385)	FESE	060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	Yes
South Anna River	FESE	010032	FESE	Ib	Sturgeon,	Acipenser	Yes

(0130948.)					Atlantic	oxyrinchus	
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0130969.)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0137259.)	FESE	060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	Yes
South Anna River (0139140.)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0139246.)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0139293.)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0141774.)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0143340.)	FESE	060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	Yes
South Anna River (0143639.)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0144988.)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0146962.)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0148520.)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	

*FE=Federal Endangered; FT=Federal Threatened; SE=State Endangered; ST=State Threatened; FP=Federal Proposed;
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**I=VA Wildlife Action Plan - Tier I - Critical Conservation Need;
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- a - On the ground management strategies/actions exist and can be feasibly implemented.;
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c - No on the ground actions or research needs have been identified or all identified conservation opportunities have been exhausted.

Species Observations where Wedgemussel, dwarf (060003) observed

(1 records , 1 Observation with
Threatened or Endangered species)

[View Map of All Query Results](#)
[Species Observations where Wedgemussel, dwarf \(060003\) observed](#)

obsID	class	Date Observed	Observer	N Species			View Map
				Different Species	Highest TE*	Highest Tier**	
3048	SppObs	Jan 1 1973	M. B. Riddick, 1973	1	FESE	I	Yes

Displayed 1 Species Observations where Wedgemussel, dwarf (060003) observed

Habitat Predicted for Aquatic WAP Tier I & II Species where Wedgemussel, dwarf (060003) observed

(1 Reach)

[View Map Combined Reaches from Below of Habitat Predicted for WAP Tier I & II Aquatic Species](#)

Stream Name	Tier Species						View Map
	Highest TE*	BOVA Code, Status*, Tier**, Common & Scientific Name					
South Anna River (20801061)	FESE	060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	Yes
South Anna River (20801061)	FESE	060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	Yes

Habitat Predicted for Terrestrial WAP Tier I & II Species where Wedgemussel, dwarf (060003) observed

N/A

Compiled on 9/10/2020, 1:26:26 PM I1053027.1 report=BOVA searchType= R dist= 3218.688 poi= 37.8038611 -77.4651111

audit no. 1053027 9/10/2020 1:26:26 PM Virginia Fish and Wildlife Information Service
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Threatened and Endangered Waters where Sturgeon, Atlantic (010032) observed

37,48,13.9 -77,27,54.4
is the Search Point

Show Position Rings

☐ Yes ☒ No
1/2 mile and 1/8 mile at the
Search Point

Show Search Area

☒ Yes ☐ No
2 Search distance miles
radius

Search Point is at
map center

Base Map Choices

BW Aerial Photography ▼

Map Overlay Choices

Current List: Search,
TEWaters

Map Overlay Legend

T & E Waters

Federal

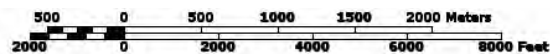
State

2 mile radius
Search Area

back Map Click **Pan** **IG** **M** Map Scale **In** **Zoom** **Out** Refresh Browser Page Screen Size **Small** **Size** **Big** **Help**



Commonwealth of Virginia Department of Game and Inland Fisheries - September 10, 2020



Point of Search 37,48,13.9 -77,27,54.4

Map Location 37,48,13.9 -77,27,54.4

Select **Coordinate System:** ☒ Degrees, Minutes, Seconds Latitude - Longitude

☐ Decimal Degrees Latitude - Longitude

☐ Meters UTM NAD83 East North Zone

☐ Meters UTM NAD27 East North Zone

Base Map source: Black & White USGS Aerial Photography (see [Microsoft.terraserver-usa.com](https://microsoft.terraserver-usa.com) for details)

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Virginia Department of Game and Inland Fisheries

9/10/2020 1:28:14 PM

Fish and Wildlife Information Service

VaFWIS Search Report Compiled on 9/10/2020, 1:28:14 PM

[Help](#)

Known or likely to occur within a **2 mile radius around point 37.8038611 -77.4651111**
 in **085 Hanover County, VA**
 where (010032) [Sturgeon, Atlantic](#) observed.

[View Map of
Site Location](#)

Threatened and Endangered Waters where Sturgeon, Atlantic (010032) observed

(15 Reaches)

[View Map of All
Threatened and Endangered Waters](#)

Stream Name	T&E Waters Species						View Map
	Highest TE*	BOVA Code, Status*, Tier**, Common & Scientific Name					
(07000020)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
South Anna River (0105590)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0108216)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0110888)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0117327)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0130948)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0130969)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel,	Alasmidonta	

					dwarf	heterodon	
South Anna River (0139140)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0139246)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0139293)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0141774)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0143639)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0144988)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0146962)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	
South Anna River (0148520)	FESE	010032	FESE	Ib	Sturgeon, Atlantic	Acipenser oxyrinchus	Yes
		060003	FESE	Ia	Wedgemussel, dwarf	Alasmidonta heterodon	

*FE=Federal Endangered; FT=Federal Threatened; SE=State Endangered; ST=State Threatened; FP=Federal Proposed; FC=Federal Candidate; CC=Collection Concern

**I=VA Wildlife Action Plan - Tier I - Critical Conservation Need;

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III=VA Wildlife Action Plan - Tier III - High Conservation Need;

IV=VA Wildlife Action Plan - Tier IV - Moderate Conservation Need

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b - On the ground actions or research needs have been identified but cannot feasibly be implemented at this time.;

c - No on the ground actions or research needs have been identified or all identified conservation opportunities have been exhausted.

Compiled on 9/10/2020, 1:28:14 PM I1053027.1 report=BOVA searchType= R dist= 3218.688 poi= 37.8038611 -77.4651111

audit no. 1053027 9/10/2020 1:28:14 PM Virginia Fish and Wildlife Information Service

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2 Species Observations where Lance, yellow (060029) observed

37,48,13.9 -77,27,54.4
is the Search Point

Show Position Rings

☐ Yes ☒ No

1/2 mile and 1/8 mile at the
Search Point

Show Search Area

☒ Yes ☐ No

2 Search distance miles
radius

Search Point is at
map center



Base Map Choices

BW Aerial Photography ▼

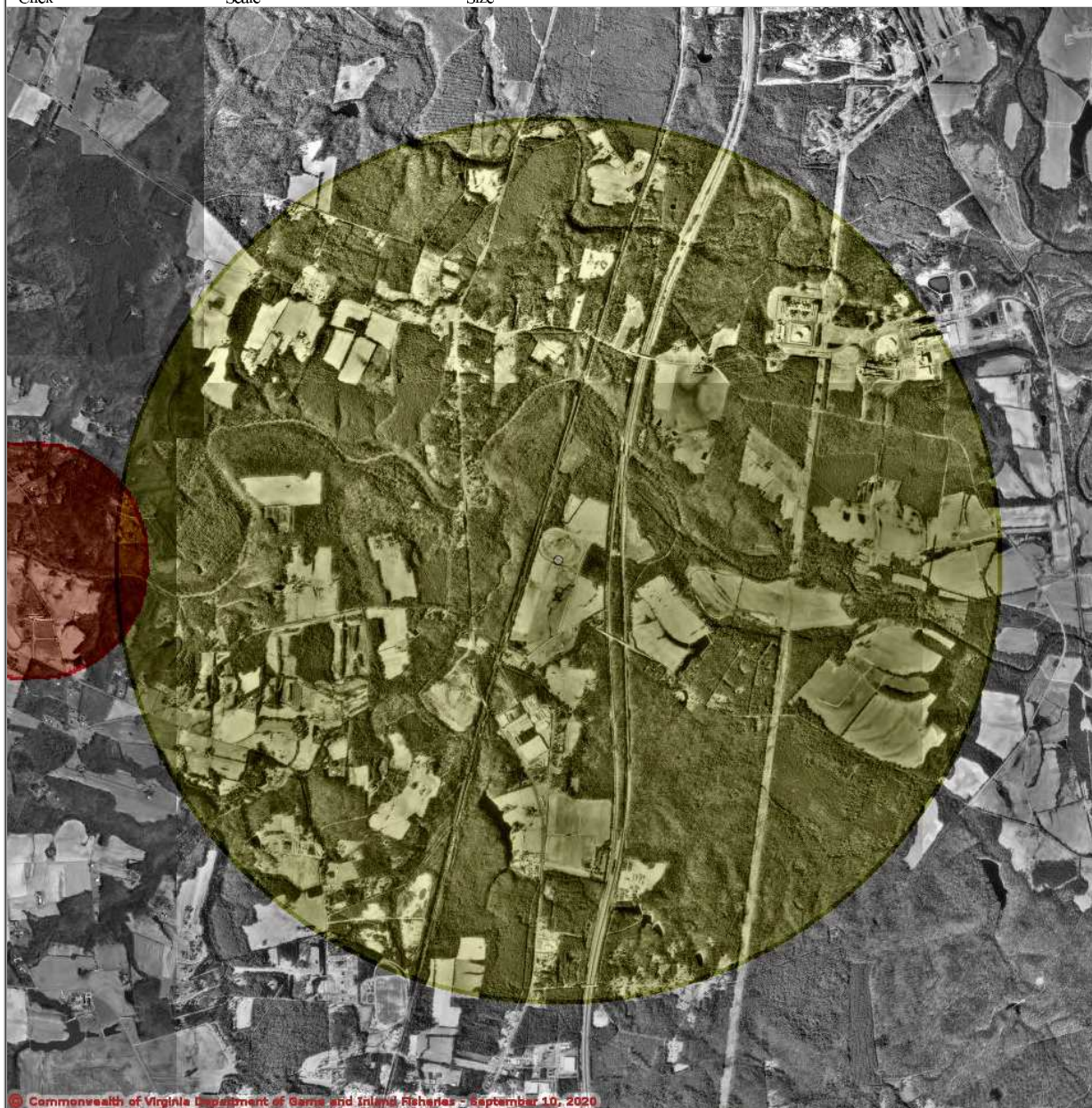
Map Overlay Choices

Current List: Search, SppObs

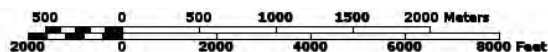
Map Overlay Legend

-  2 mile radius
Search Area
-  Data
Observation Site

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[Big](#)
[Help](#)



Commonwealth of Virginia Department of Game and Inland Fisheries - September 10, 2020



Point of Search 37,48,13.9 -77,27,54.4

Map Location 37,48,13.9 -77,27,54.4

Select **Coordinate System:** ☒ Degrees, Minutes, Seconds Latitude - Longitude

☐ Decimal Degrees Latitude - Longitude

☐ Meters UTM NAD83 East North Zone

☐ Meters UTM NAD27 East North Zone

Base Map source: Black & White USGS Aerial Photography (see [Microsoft.terraserver-usa.com](https://microsoft.terraserver-usa.com) for details)

Map projection is UTM Zone 18 NAD 1983 with left 278980 and top 4190916. Pixel size is 8 meters. Coordinates displayed are Degrees, Minutes, Seconds North and West. Map is currently displayed as 1000 columns by 1000 rows for a total of 1000000 pixels. The map display represents 8000 meters east to west by 8000 meters north to south for a total of 64.0 square kilometers. The map display represents 26251 feet east to west by 26251 feet north to south for a total of 24.7 square miles.



Virginia Department of Game and Inland Fisheries

9/10/2020 1:30:04 PM

Fish and Wildlife Information Service

VaFWIS Search Report Compiled on 9/10/2020, 1:30:04 PM

[Help](#)

Known or likely to occur within a **2 mile radius around point 37.8038611 -77.4651111**
 in **085 Hanover County, VA**
 where (060029) [Lance, yellow](#) observed.

[View Map of
Site Location](#)

Species Observations where Lance, yellow (060029) observed (2 records , 2 Observations with
Threatened or Endangered species)

[View Map of All Query Results](#)
[Species Observations where Lance, yellow \(060029\) observed](#)

obsID	class	Date Observed	Observer	N Species			View Map
				Different Species	Highest TE*	Highest Tier**	
4009	SppObs	Aug 28 1991	Richard Neves; VPI & SU	2	FTST	II	Yes
55600	SppObs	Aug 28 1991	NEVES, POWELL, AND O'CONNELL, VIRGINIA COOPERATIVE FISH AND WILDLIFE UNIT, VA TECH	2	FTST	II	Yes

Displayed 2 Species Observations where Lance, yellow (060029) observed

*FE=Federal Endangered; FT=Federal Threatened; SE=State Endangered; ST=State Threatened; FP=Federal Proposed;
 FC=Federal Candidate; CC=Collection Concern

**I=VA Wildlife Action Plan - Tier I - Critical Conservation Need;

II=VA Wildlife Action Plan - Tier II - Very High Conservation Need;

III=VA Wildlife Action Plan - Tier III - High Conservation Need;

IV=VA Wildlife Action Plan - Tier IV - Moderate Conservation Need

Virginia Wildlife Action Plan Conservation Opportunity Ranking:

a - On the ground management strategies/actions exist and can be feasibly implemented.;

b - On the ground actions or research needs have been identified but cannot feasibly be implemented at this time.;

c - No on the ground actions or research needs have been identified or all identified conservation opportunities have been exhausted.

Compiled on 9/10/2020, 1:30:04 PM I1053027.1 report=BOVA searchType= R dist= 3218.688 poi= 37.8038611 -77.4651111

audit no. 1053027 9/10/2020 1:30:04 PM Virginia Fish and Wildlife Information Service

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Natural Heritage Resources

Your Criteria

- Taxonomic Group: Select All
- Global Conservation Status Rank: Select All
- State Conservation Status Rank: Select All
- Federal Legal Status: Select All
- State Legal Status: Select All
- Watershed (8 digit HUC): 02080106 - Pamunkey River
- Subwatershed (12 digit HUC): YO11 - South Anna River-Cedar Creek

Search Run: 9/10/2020 11:00:13 AM

Result Summary

Total Species returned: 5
Total Communities returned: 0

Click scientific names below to go to NatureServe report.

Click column headings for an explanation of species and community ranks.

Common Name/Natural Community	Scientific Name	Scientific Name Linked	Global Conservation Status Rank	State Conservation Status Rank	Federal Legal Status	State Legal Status	Statewide Occurrences	Virginia Coastal Zone
Pamunkey								
South Anna River-Cedar Creek								
AMPHIBIANS								
Tiger Salamander	Ambystoma tigrinum	Ambystoma tigrinum	G5	S1	None	LE	13	Y
BIVALVIA (MUSSELS)								
Dwarf Wedgemussel	Alasmidonta heterodon	Alasmidonta heterodon	G1G2	S1	LE	LE	15	Y
Yellow Lance	Elliptio lanceolata	Elliptio lanceolata	G2	S2	LT	LT	47	Y
Green Floater	Lasmigona subviridis	Lasmigona subviridis	G3	S2	None	LT	65	Y
VASCULAR PLANTS								
Small Whorled Pogonia	Isotria medeoloides	Isotria medeoloides	G2G3	S2	LT	LE	60	Y

Note: On-line queries provide basic information from DCR's databases at the time of the request. They are NOT to be substituted for a project review or for on-site surveys required for environmental assessments of specific project areas.

For Additional Information on locations of Natural Heritage Resources please submit an [information request](#).

To Contribute information on locations of natural heritage resources, please fill out and submit a [rare species sighting form](#).



Three Oaks Engineering, Inc.
324 Blackwell Street, Suite 1200
Durham, NC 27701
(919) 732-1300

December 4, 2019

Matt Neely, PWD

Senior Environmental Project Manager

TIMMONS GROUP

1001 Boulders Parkway, Suite 300 | Richmond, VA 23225
804.200.6369

Subject: Graymont Site Mussel Survey Summary

Dear Mr. Neely:

Per your request, the following provides a summary of the findings of the mussel survey Three Oaks Engineering was contracted to conduct for the Graymont Industrial Park. A U.S. Fish and Wildlife Service and Virginia Department of Game and Inland Fisheries database review indicated the potential for the Federally Endangered Dwarf Wedgemussel (*Alasmodonta heterodon*) and Federally Threatened Yellow Lance (*Elliptio lanceolata*), which were the primary targets of the survey efforts.

On November 5, 2019, Three Oaks personnel Tom Dickinson, Tim Savidge, and Lizzy Stokes-Cawley, accessed the Graymont site and conducted freshwater mussel surveys and evaluations as depicted in Figure 1.

The perennial tributary on the site was determined to be too small to support a freshwater mussel fauna; no mussel evidence was located in the habitat evaluation reach. High quality mussel habitat is present in the portions of the South Anna River surveyed. Four mussel species were located in the river (Reach A and B) during these efforts: Eastern Elliptio (*Elliptio complanata*), Variable Spike (*Elliptio icterina*), Carolina Slabshell (*Elliptio congaraea*), and Roanoke Slabshell (*Elliptio roanokensis*). While none are state or federally listed Threatened or Endangered, the Roanoke Slabshell and Carolina Slabshell are listed in the Virginia Wildlife Action plan as species of conservation need (Tier 2 and 4, respectively).

These efforts provide updated survey data for the Graymont site. While high quality habitat is present in the South Anna River, and there is potential for additional species not found during these efforts to occur there, the target federally listed species were not found during these efforts.

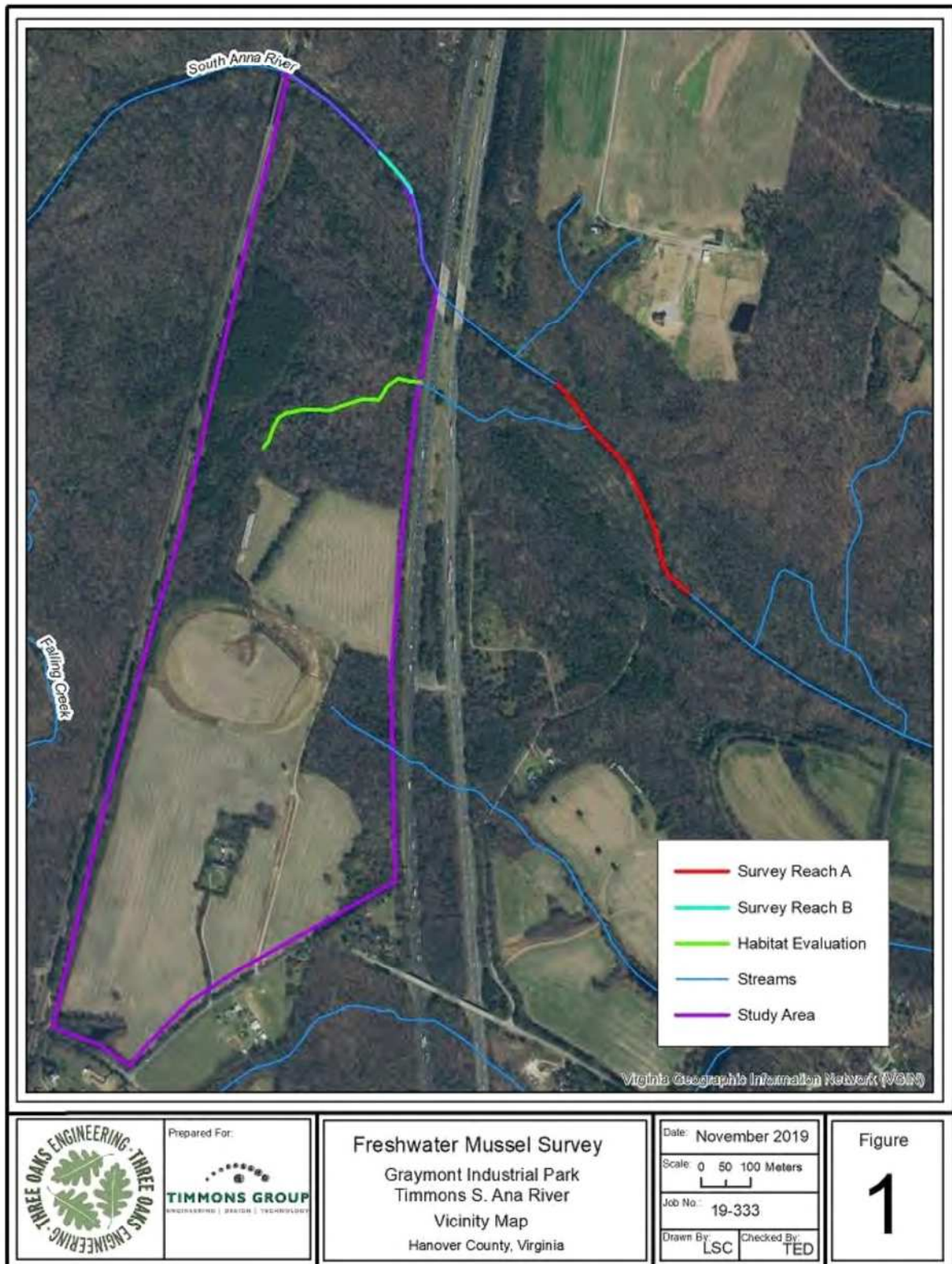
Sincerely,

Tom Dickinson

Project Manager

tom.dickinson@threeoaksengineering.com

919-417-2099



Matt Neely

From: Dan Aken <dan.aken@wegmans.com>
Sent: Friday, February 14, 2020 2:11 PM
To: bcotman@gmail.com; blackbutterfly.wj@gmail.com; artrianna09@gmail.com; klu.michael@yahoo.com; bjack@comcast.com
Cc: Ivan Wu; Doug Viets
Subject: Wegmans / Brown Grove Follow-up
Attachments: 20200213 Conceptual Plan to Wegmans with Ph1 LOD Color.pdf

Hi Folks,

First, I wanted to thank you again for taking the time to meet with Doug, Ivan and me. I truly appreciate the civility and honest and open discussion and found the meeting to be very informative and productive. I hope you felt the same way. To that end, I wanted to follow-up and provide you all an update on the items we discussed.

1. A revised concept plan is attached. Please see the revised plan showing the Limits of Disturbance (LOD). These are the areas we believe we will need to remove trees and perform site construction, grading work. The areas shown as dark green are intended to remain the existing vegetation that is out there today.
2. The employee entrance – we have taken a closer look at this and have it moved over as far to the west as we can. We are showing a small 75-foot long taper that would allow cars turning right into the driveway a way to get over easier and safer. These plans along with our traffic study are still in the process of being reviewed by the County and DOT. We are not proposing to widen the road or remove any trees other than for the new driveway.
3. We discussed the buffers and making sure you will not see the fence or the building or parking lot lights. We are fairly certain that these will not be very noticeable given the buffer we are providing.
4. Trucks backing and beeping. We have looked at the County's noise ordinance and the distance between our buildings and the property line and are comfortable that we will be below the threshold for the noise ordinance. In addition, we are trying to see if there are alternatives to the beeping that could be used, but this will take a little more time to get resolved.
5. Concern about groundwater contamination. As we mentioned we are not producing anything in this facility. All rainwater that falls on the developed portion of the property (the building, parking lots, and landscaped areas) will be captured in pipes and directed to the stormwater pond. Also, we will not have above ground or underground fuel storage tanks on the property.
6. Connecting to public water and sewer. We are evaluating this now. We will work to extend the sanitary sewer to the edge of our property, but we may need your help with property #34 (Clifford Duris). It looks like the best path to getting sanitary sewer to the church would be with an easement along the Duris property. We are still evaluating this, but it would be nice to know if Duris is a member of the church and might be willing to work with us.
7. Truck interference with church PA system. Doug has discussed this at length with our IT professionals. They had a few recommendations we may be able to assist with. As a starting point, we would need to know the name and make of the system. Can you please share this with us?
8. Wages and hiring locals. As mentioned, we will have a core team of employees that will relocate from other facilities and / or stores; but a vast majority of the positions will be filled locally. When the time comes our human resources group will begin advertising and reaching out to various employment agencies to start the hiring process.. For wages, the average salaries for warehouse workers will be approx.. \$37,000; for drivers it will be approx.. \$50,000, and for management and administrative staff it will be approx. \$73,000. These will all be full-time positions with benefits.
9. Hiring felons and sex offenders. I spoke with our human resources department about this, as it was a new question I did not have an answer for. We do not have a policy on this topic. We consider each situation on a

case by case basis involving our HR, Legal and Store and Facilities Operations to determine the best course of action when these situations are brought to our attention.

I hope this helps answer some of the questions. We still have some work to do to get specifics on some of the items, such as water and sanitary, but we are working closely with Timmons to get these answers. If you have any questions, or if I have missed anything from our meeting, please do not hesitate to reach out to me or Doug.

I am out of the office all next week, but Doug will be available and will be at the Planning Commission meeting next week.

Thank you again for the conversation.

Dan

Dan Aken

Director of Real Estate and Site Development

Wegmans Food Markets, Inc.

100 Wegmans Market Street / P.O. Box 30844

Rochester, NY 14603

(585) 464-4728 Work

(585) 755-1842 Mobile

dan.aken@wegmans.com

Please email us a Revised conceptual plan

1. bcotman@gmail.com (Bonnica Cotman)
2. Willnette Jackson blackbutterfly.WJ@gmail.com
3. Artrianna Morris Artrianna09@gmail.com
4. Michael Morris KLU.MICHAEL@yahoo.com
5. Benjamin Jackson bjack@comcast.net



Find data for this place

Interact with charts and statistics for margins of error and additional information.

Demographics

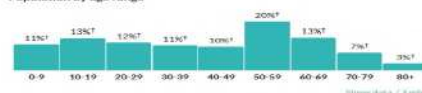
† Margin of error is at least 10 percent of the total value. Take care with this statistic.

Age

43.6
Median age

about the same as the figure in Hanover County: 42.9
about 30 percent higher than the figure in Virginia: 38.1

Population by age range

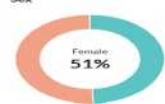


Population by age category



† Margin of error is at least 10 percent of the total value. Take care with this statistic.

Sex



Race & Ethnicity



Economics

† Margin of error is at least 10 percent of the total value. Take care with this statistic.

Income

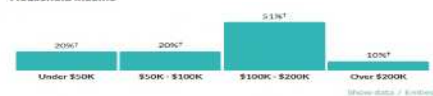
\$45,062
Per capita income

about 10 percent higher than the amount in Hanover County: \$39,604
about 20 percent higher than the amount in Virginia: \$37,763

\$113,646
Median household income

about 1.3 times the amount in Hanover County: \$88,652
about 1.5 times the amount in Virginia: \$71,564

Household income



† Margin of error is at least 10 percent of the total value. Take care with this statistic.

Poverty

2%
Persons below poverty line

about one-third of the rate in Hanover County: 5.0%†
about one-fifth of the rate in Virginia: 11%

Children (Under 18)



Seniors (65 and over)



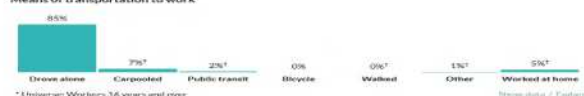
† Margin of error is at least 10 percent of the total value. Take care with this statistic.

Transportation to work

24.7 minutes
Mean travel time to work

a little less than the figure in Hanover County: 25.5
about 90 percent of the figure in Virginia: 28.4

Means of transportation to work



Families

Households

877
Number of households

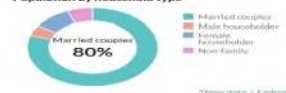
Hanover County: 38,599
Virginia: 3,128,415

3

Persons per household

about 10 percent higher than the figure in Hanover County: 2.7
about 20 percent higher than the figure in Virginia: 2.6

Population by household type

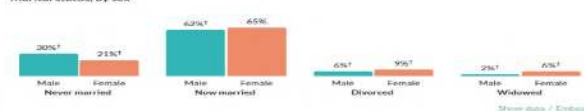


† Margin of error is at least 10 percent of the total value. Take care with this statistic.

Marital status



Marital status, by sex



† Margin of error is at least 10 percent of the total value. Take care with this statistic.

Fertility

7.6%

Women 15-50 who gave birth during past year

nearly double the rate in Hanover County: 4%†
about 1.5 times the rate in Virginia: 5.2%

Women who gave birth during past year, by age group



Housing

Units & Occupancy

Feedback

EJSCREEN Report (Version 2019)

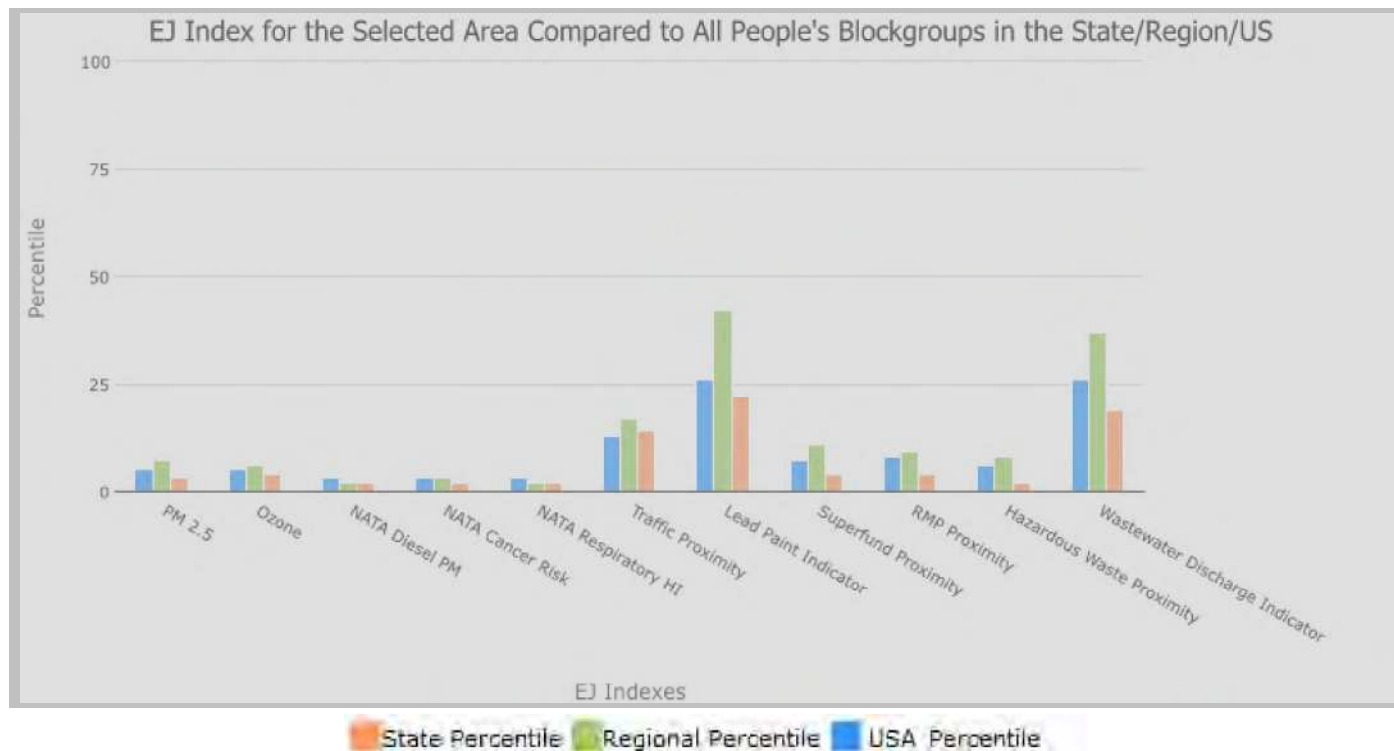


1 miles Ring Centered at 37.711782,-77.425511, VIRGINIA, EPA Region 3

Approximate Population: 1,974

Input Area (sq. miles): 3.14

Selected Variables	State Percentile	EPA Region Percentile	USA Percentile
EJ Indexes			
EJ Index for PM2.5	3	7	5
EJ Index for Ozone	4	6	5
EJ Index for NATA* Diesel PM	2	2	3
EJ Index for NATA* Air Toxics Cancer Risk	2	3	3
EJ Index for NATA* Respiratory Hazard Index	2	2	3
EJ Index for Traffic Proximity and Volume	14	17	13
EJ Index for Lead Paint Indicator	22	42	26
EJ Index for Superfund Proximity	4	11	7
EJ Index for RMP Proximity	4	9	8
EJ Index for Hazardous Waste Proximity	2	8	6
EJ Index for Wastewater Discharge Indicator	19	37	26



This report shows the values for environmental and demographic indicators and EJSCREEN indexes. It shows environmental and demographic raw data (e.g., the estimated concentration of ozone in the air), and also shows what percentile each raw data value represents. These percentiles provide perspective on how the selected block group or buffer area compares to the entire state, EPA region, or nation. For example, if a given location is at the 95th percentile nationwide, this means that only 5 percent of the US population has a higher block group value than the average person in the location being analyzed. The years for which the data are available, and the methods used, vary across these indicators. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJSCREEN documentation for discussion of these issues before using reports.

1 miles Ring Centered at 37.711782,-77.425511, VIRGINIA, EPA Region 3

Approximate Population: 1,974

Input Area (sq. miles): 3.14



Sites reporting to EPA	
Superfund NPL	0
Hazardous Waste Treatment, Storage, and Disposal Facilities (TSDF)	0

EJSCREEN Report (Version 2019)



1 miles Ring Centered at 37.711782,-77.425511, VIRGINIA, EPA Region 3

Approximate Population: 1,974

Input Area (sq. miles): 3.14

Selected Variables	Value	State Avg.	%ile in State	EPA Region Avg.	%ile in EPA Region	USA Avg.	%ile in USA
Environmental Indicators							
Particulate Matter (PM 2.5 in $\mu\text{g}/\text{m}^3$)	8.04	7.79	64	8.64	29	8.3	40
Ozone (ppb)	41.3	42.5	34	44.9	11	43	35
NATA* Diesel PM ($\mu\text{g}/\text{m}^3$)	0.534	0.425	73	0.477	60-70th	0.479	60-70th
NATA* Cancer Risk (lifetime risk per million)	34	31	82	31	70-80th	32	60-70th
NATA* Respiratory Hazard Index	0.46	0.41	79	0.4	70-80th	0.44	50-60th
Traffic Proximity and Volume (daily traffic count/distance to road)	170	570	49	640	43	750	45
Lead Paint Indicator (% Pre-1960 Housing)	0.072	0.21	40	0.36	21	0.28	32
Superfund Proximity (site count/km distance)	0.092	0.11	67	0.15	55	0.13	63
RMP Proximity (facility count/km distance)	0.4	0.38	74	0.62	60	0.74	55
Hazardous Waste Proximity (facility count/km distance)	0.85	0.66	75	1.3	60	4	61
Wastewater Discharge Indicator (toxicity-weighted concentration/m distance)	3.4E-05	0.8	59	30	40	14	50
Demographic Indicators							
Demographic Index	13%	32%	13	30%	20	36%	14
Minority Population	13%	37%	20	32%	37	39%	28
Low Income Population	13%	26%	30	28%	25	33%	19
Linguistically Isolated Population	0%	3%	52	3%	55	4%	45
Population With Less Than High School Education	5%	11%	32	11%	30	13%	27
Population Under 5 years of age	6%	6%	51	6%	55	6%	50
Population over 64 years of age	12%	14%	46	16%	37	15%	44

* The National-Scale Air Toxics Assessment (NATA) is EPA's ongoing, comprehensive evaluation of air toxics in the United States. EPA developed the NATA to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that NATA provides broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. More information on the NATA analysis can be found at: <https://www.epa.gov/national-air-toxics-assessment>.

For additional information, see: www.epa.gov/environmentaljustice

EJSCREEN is a screening tool for pre-decisional use only. It can help identify areas that may warrant additional consideration, analysis, or outreach. It does not provide a basis for decision-making, but it may help identify potential areas of EJ concern. Users should keep in mind that screening tools are subject to substantial uncertainty in their demographic and environmental data, particularly when looking at small geographic areas. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJSCREEN documentation for discussion of these issues before using reports. This screening tool does not provide data on every environmental impact and demographic factor that may be relevant to a particular location. EJSCREEN outputs should be supplemented with additional information and local knowledge before taking any action to address potential EJ concerns.

Prepared For:

Virginia Department of Environmental Quality (DEQ)
Piedmont Regional Office
&
U.S. Army Corps of Engineers (USACE)
Norfolk District, Southern Section

**INDIVIDUAL PERMIT APPLICATION
ADDITIONAL INFORMATION PACKAGE
WEGMANS DISTRIBUTION CENTER
HANOVER, VA
(NAO-2012-02369, VWPP NO. 19-2036)**

September 2020

Prepared By:



1001 Boulders Parkway, Suite 300
Richmond, Virginia 23225
Phone: 804.200.6500
Fax: 804.560.1648
www.Timmons.com

EXECUTIVE SUMMARY

On behalf of Wegmans Food Markets, Inc. (the Applicant), Timmons Group is submitting this Additional Information Package to answer agency requests for additional information, as well as augment previously submitted documentation in support of the Joint Permit Application (NAO-2012-02369; VWPP-2036) for the Wegmans Distribution Center in Hanover County, Va., originally submitted on 11/27/2019.

The proposed site will serve as a regional distribution center, to include appurtenance facilities (roadways, utilities, stormwater, fencing, etc.) at the Airpark Site (Site) located in Hanover County. The proposed project calls for the development of an approximately 217 acres site in order to meet the current and future needs of the Applicant, while providing substantial capital investment and job creation.

The Airpark Site has been identified as the preferred location for development based on location, size, accessibility, offsite improvements, and other characteristics that facilitate the Applicant's goals by serving as a secure regional grocery distribution center that will (a) serve existing retail locations, (b) relieve transportation burdens from existing supply centers, and (c) provide a base of support to serve future retail locations in the mid-Atlantic region.

The required site components include a phase I approximately 1.1 million contiguous square feet (sq. ft) facility developed in a "L" shape that will house a dry warehouse, refrigerated warehouse, return center, and offices, with a nearer term Phase II expansion to approximately 1.3 million square feet. In addition, appurtenant facilities such as parking and staging areas for tractor trailers, parking for associates, and ancillary support buildings (i.e. returning trailer cleanout & site security) are necessary for operations. Future development/expansion of the distribution center will be constructed in accordance with county zoning which allows for a maximum buildout of 1.7 million square feet.

Based on the required project layout, 14.8 acres of wetlands and ditches will be permanently impacted by the proposed project (see Appendix A: Wetlands and Waters Impacts Map). Impacts will result from the development of building pads, parking areas, and proposed road crossings. The required layout provides sufficient area to construct the facility, as well as position the facility along the topographic plateau found onsite which will serve to minimize secondary impacts. Fill slopes will be graded to a 3:1 slope and will be hydroseeded and matted to stabilize the site and prevent secondary impacts to downstream receiving waters.

Compensatory mitigation for these unavoidable impacts will be achieved through the purchase of off-site mitigation credits from a Wetland and Stream Mitigation Bank approved for use in the Pamunkey Watershed (Hydrologic Unit Code 02080106). Wetland mitigation credits will be purchased at a ratio of 2:1 for PFO wetlands and adjacent/connected ditches (29.14 credits), a ratio of 1:1 for PEM wetlands (0.23 credits). The total compensation requirement for wetland impacts onsite is 29.37 credits.

**Additional Information Package
Wegmans Distribution Center (NA0-2012-02369; VWPP-2036)**

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FIGURES

- Figure 1: Vicinity Map
- Figure 2: Hydrologic Unit Code Map
- Figure 3: Environmental Inventory Map
- Figure 4: Confirmed Waters of the United States (WOUS) Map
- Figure 5: Offsite Alternative, Flippo Site
- Figure 6: Offsite Alternative, Blenheim Site
- Figure 7: Offsite Alternative, Archie Cannon Site
- Figure 8: Offsite Alternative, Graymont Site

APPENDICES

- Appendix A: Wetlands and Waters Impacts Map
- Appendix B: Wetland Mitigation Credit Availability Letter
- Appendix C: Jurisdictional Determination Information

1.0 PROJECT INFORMATION SHEET

General

Project Name: Wegmans Distribution Center
State: Virginia
County: Hanover County

Latitude: 37.711435°
Longitude: -77.423739°

Subject Property Size: +/- 217.33 acres

HUC Code: 02080106 (Pamunkey Watershed)

Waterbodies: Palustrine Forested (PFO) wetlands, Palustrine Scrub-shrub (PSS) wetlands, and Palustrine Emergent (PEM) wetlands

Corresponding Information

USGS Quad: Yellow Tavern

USDA Soils Map: NRCS Web Soil Survey - Hanover County

Proposed Use: Development as a regional distribution facility
Owner/Applicant Name: Wegmans Food Markets, Inc.

Address: 1500 Brooks Avenue
P.O. Box 30844
Rochester, NY 14603-0844

Contact: Douglas Viets

Consultant Name: Timmons Group

Address: 1001 Boulders Parkway, Suite 300
Richmond, VA 23225

Telephone: (804) 200-6500 (p)
(804) 560-1648 (f)

Contacts: Matt Neely: (804) 200-6369

2.0 Introduction and Background

On behalf of Wegmans Food Markets, Inc. (the Applicant), Timmons Group is submitting this Additional Information Package to answer agency requests for additional information, as well as augment previously submitted documentation in support of the Joint Permit Application (NA)-2012-02369; VWPP-2036) for the Wegmans Distribution Center in Hanover County, Va., originally submitted on 11/27/2019.

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The Airpark Site has been identified as the preferred location for development based on location, size, accessibility, offsite improvements, cost and other characteristics that facilitate the Applicant's goals, by serving as a secure regional grocery distribution center that will (a) serve existing retail locations, (b) relieve transportation burdens from existing supply centers, and (c) provide a base of support to serve future retail locations in the mid-Atlantic region.

The required site components include a phase I approximately 1.1 million contiguous square feet (sq. ft) facility developed in a "L" shape that will house a dry warehouse, refrigerated warehouse, return center, and offices, with a nearer term Phase II expansion to approximately 1.3 million square feet. In addition, appurtenant facilities such as parking and staging areas for tractor trailers, parking for associates, and ancillary support buildings (i.e. returning trailer cleanout & and site security) are necessary for operations. Future development/expansion of the distribution center will be constructed in accordance with county zoning which allows for a maximum buildout of 1.7 million square feet.

3.0 SITE DESCRIPTION

3.1 Site Location

The approximately 217-acre site is in Hanover County southwest of the intersection of Ashcake Road and Sliding Hill Road. The Site is surrounded by agricultural and forest land, as well as Ashcake Road to the north, residential development and forest, as well as Sliding Hill Road to the east and south, and the Hanover County Municipal Airport and industrial/commercial development to the West (see Figure 1: Vicinity Map). The project lies within the Pamunkey Watershed (Hydrologic Unit Code 02080106) (see Figure 2: Hydrologic Unit Code Map).

3.2 Site Conditions

The Site is comprised of all or a portion of 22 separate tax parcels owned by Airpark Associates and generally consists of mid to late successional mixed pine-hardwood forest (see Figure 3: Environmental Inventory Map). A wetland delineation was previously conducted to identify the presence and location of jurisdictional wetlands and streams within the Project limits in accordance with the guidance provided by the U.S. Army Corps of Engineers (COE) 1987 Delineation Manual and subsequently issued COE guidance.

A Preliminary Jurisdictional Determination (PJD) was issued on October 30, 2019 (NAO-2012-02369) and then updated February 11, 2020. Based on several comments concerning the wetland delineation during multiple public comment periods (USACE & DEQ), additional field work was conducted by the U.S. Army Corps of Engineers in August of 2020. A new Preliminary Jurisdictional Determination was issued on 15 September 2020 (See Figure 4: Confirmed Waters of the United States (WOUS) Map and Appendix C: Preliminary Jurisdictional Determination Information), and will be followed by an Approved Jurisdictional Determination (AJD) from the U.S. Army Corps of Engineers at a later date.

The Site consists of generally flat topography ranging from topographic highs of approximately 200 feet above mean sea level (AMSL) in the central portion of the site sloping downward in all directions to topographic lows of approximately 189 feet AMSL along the western site boundary. The wetlands within the project area are dominated by palustrine forested (PFO) wetlands but also contains a small percentage of palustrine scrub shrub (PSS) and palustrine emergent (PEM) wetlands. A small number of jurisdictional ditches are also found onsite. Wetlands within the project area persist in the natural depressions within the forested areas and alongside the large drainage system that bisect the southern portion of the Site (see Figure 4: Confirmed WOUS Map).

4.0 PURPOSE AND NEED

The purpose of the proposed project is to provide a site that will serve as a secure regional grocery distribution center that will (a) serve existing retail locations, (b) relieve transportation burdens from existing supply centers, and (c) provide a base of support to serve future retail locations in the mid-Atlantic region.

Currently the Applicant has operating retail locations as far south as Virginia Beach, Virginia, with a store set to open in West Cary, North Carolina in 2020. The nearest distribution facility to these stores is in Pottsville Pennsylvania. The Pottsville Distribution Center currently serves fifty-four (54) stores. This includes 9 in New Jersey, 28 in Pennsylvania, 6 in Massachusetts, 8 in Maryland, 12 in Virginia, and 1 in North Carolina. The desired goal is for each Distribution Center to serve 45 stores, so Pottsville is operating at 20% overcapacity ($54/45 = 120\%$). The Rochester Distribution Center serves 47 stores within New York. The Hanover Co. facility will immediately begin serving 24 stores, as it is much more efficient (less miles and time) from Hanover Co. than it is from the Pottsville facility.

It is approximately 480 road miles from Pottsville, PA to Raleigh, NC, which is central to 5 future store locations in NC (Chapel Hill, West Cary, Wake Forest, Raleigh, Cary). A Hanover distribution center would likely reduce trip miles to those locations by over 290 miles one way, as it is approximately 187 miles from the Hanover site to Raleigh, NC. Operationally it's more efficient to serve the existing and future stores in Virginia and North Carolina from Hanover. The shorter the distance from Distribution Center to store provides for safer and fresher food quality. That reduction of trip miles translates to a significant reduction in fuel and operational costs associated with each trip.

It is not feasible to supply the increasing number of mid-Atlantic store locations from the central Pennsylvania Regional Distribution Center. Therefore, the need exists to develop a new regional distribution center that can serve current and planned stores in the mid-Atlantic region in a

logistically responsible and cost-efficient manner. Following current trends, the Applicant will outgrow their existing supply potential within the next five years.

5.0 ALTERNATIVE ANALYSIS

5.1 Location Information and Layout Considerations

Wegmans considered approximately a dozen locations in Virginia and North Carolina and determined that Hanover made the most sense due to the proximity to the Northern Virginia stores and new stores in North Carolina. A distribution center located in Hanover county increases logistical efficiency due to the ease of access to I-95, allowing the center to not only serve stores in NC and southern Virginia, but also providing a better source of distribution for stores located in northern Virginia (Fredericksburg, Potomac, Alexandria, Lake Manassas, Chantilly, Fairfax, etc..). Servicing NOVA stores from the Hanover distribution center also reduces the number of trips, trucks originating from the Pottsville Center need to make through one of the most heavily congested areas of traffic in the nation, the DC Metro Area. This helps reduce the risks associated with perishable food items, while enhancing safety by decreasing road hours for operators.

Other locations located within the Metro Richmond area do not provide the same ease of access to the portions of I-95 that facilitate the logistics train to NOVA stores. Multiple sites were evaluated in Hanover and the Town of Ashland. The Air Park site was determined the preferred site due to a combination of factors. These factors include:

- Proximity to I-95
- Logistical efficiency to serve current and future store locations
- Ecological factors (Wetland, Stream, RPA, T&E species)
- Mitigation Cost and Credit Availability
- Zoning
- Access (Required offsite road improvements, Avoidance of congested areas)
- Ease of Utility Access (Sewer, Power, Water)
- Cost

Development of the regional distribution facility in an innovative manner will allow for maximized efficiency in day to day operations, which in the long-term, will provide an increased profit margin, while also reducing required building footprints. The required site components include a phase I approximately 1.1 million contiguous square feet (sq. ft) facility developed in a “L” shape that will house a dry warehouse, refrigerated warehouse, return center, and offices, with a nearer term Phase II expansion to approximately 1.3 million square feet. In addition, appurtenant facilities such as parking and staging areas for tractor trailers, parking for associates, and ancillary support buildings (i.e. returning trailer cleanout & and site security) are necessary for operations. Future development/expansion of the distribution center will be constructed in accordance with county zoning which allows for a maximum buildout of 1.7 million square feet.

A different layout would result in a less efficient operation as well as require a larger building footprint because various services such as security and employee breakrooms would need to be duplicated.

The Applicant has been in business for 104 years and currently operates 101 stores in seven states. In designing the Hanover Distribution Center building, the best design and operational

practices were considered from all previous and existing facilities and incorporated. The Hanover Co. site was designed to maximize the efficiency of the site.

By implemented Cross docking properly, many benefits can be brought about for organizations. Some of them are listed below:

- Decreased storage cost
- Reduced fix price of the storage area
- Reduced shipment lead time
- Increased customer satisfaction via fast delivery

Retail cross docking receives items from different suppliers and classify them into departing trucks for various destinations.

Additionally, there are multiple reasons/benefits that necessitate L-shaped campuses

- a) The employee parking and administrative areas are positioned centrally to the dry and perishable buildings. This enables a common entry point, shared employee areas, a common area for equipment parking, maintenance and offices. Other layouts result in having to duplicate several of these areas to cut down on the distance employees would need to travel.
- b) Employee parking and truck traffic are kept apart
- c) Ability for a common outbound trucking operation that is shared for both buildings in terms of tractor and trailer parking, trailer stripping, and other common requirements. Moving trailers throughout the site requires less miles and less fuel because of the L-Shaped common shared trucking concourse as compared to an “in-line” design.
- d) Greater ability to expand each building in the future if this should ever be a requirement.

Regarding the layout to facilitate the “Flow Through” of product, this selection technique facilitates the movement of product through the warehouse without ever having to go into storage.

- a) Smaller warehouse footprint is required due to limiting the amount of product being stored in the warehouse. (In many cases this could by more than 40% of meat and produce).
- b) Decreased handling of product
- c) Increased freshness to the customer. In many product lines several days of lead time have been removed from the supply chain resulting in increased freshness and shelf life for our customers.

5.2 No-Action Alternative

The No-Action Alternative, which would avoid all impacts to aquatic resources, is not a viable option given the purpose and need of the Project is to (a) serve existing retail locations, (b) relieve transportation burdens from existing supply centers, and (c) provide a base of support to serve future retail locations in the mid-Atlantic region.

Under the No Action Alternative, the proposed development of the distribution center would not result in impacts to surface waters and would not require the issuance of a 404/401 Individual Permit. The Applicant evaluated the possibility of delaying investment in a new facility through SOP changes and expansion of existing facilities. However, it was determined that the central Pennsylvania regional supply center constraints would require expansion of the existing facility to meet demand. Since mid-Atlantic growth is expected to continue, expanding this facility would sub-optimize transportation costs, especially when having to navigate through traditionally congested areas such as the D.C. metro area. In addition, store service and product quality would be at risk due to the long distances and transportation costs would exceed all other alternatives evaluated.

5.3 Offsite Alternatives

Multiple parcels within Hanover County were evaluated as potential project locations for development as a regional distribution facility. Four sites were evaluated based on multiple site criteria. Because a formal field delineation and perennial stream assessment/resource protection area determination was not practicable for all sites evaluated, the aquatic resources for 3 of the alternatives (1,2, and 4) were approximated based on National Wetland Inventory and National Hydrography Dataset mapping.

Alternative 1: Flippo Site

Alternative 1, referred to as the Flippo Site, is located southwest of the intersection of Interstate 95 and RT30 (Kings Dominion Blvd) (see Figure 5: Offsite Alternative, Flippo Site). The site consists of managed pine plantation. The zoning for the Flippo site is currently A-1, as such a conditional use permit or rezoning proffer may need to be secured.

Surface Water Impacts:

Approximately 15 acres of wetlands would be permanently impacted as a result of practicable project implementation at the Flippo Site. At a rate of \$35,000 per wetland mitigation credit, required mitigation costs will be approximately \$1,050,000.

Cost:

The total assessed value (2020) of the site is \$2,005,100. Anticipated compensatory mitigation costs for the most practicable layout at this location would be approximately \$1,050,000, bringing a conservative estimate of pre-development cost to \$3,055,200.

The Flippo Site would require the use of unclassified rural collector roads SR-602 (Mt. Hope Church Road), SR-689 (Taylorsville Road), and Short Cut Road in order to access Route 1 and Route 30 before the Route 30/I-95 interchange. These roads would require significant and costly improvements in order to withstand prolonged tractor trailer use. In addition to the required \$1,050,000 for compensatory mitigation. Due to its current use as pine plantation this alternative would likely require a minimum of 130+ acres of tree clearing and the construction of sewer, waterline, and electricity infrastructure to the interior of the site, further adding to overall project costs and increased project timeline

Logistics:

While site access and road infrastructure improvements are sub-par, size and the proximity to Interstate 95 make the Flipppo Site a viable option. However, the potential exists for increased congestion and reduced traffic safety when accessing the interstate, as the site is near the Kings Dominion theme park and would likely utilize the same access junction to I-95 as patrons and employees entering/exiting the park via Route 30.

Technology:

The technology exists to construct a regional distribution center on this site, this alternative is practicable in terms of technology.

Alternative 2: Blenheim Site

Alternative 2, referred to as the Blenheim Site, is located off Hickory Hill Road east of Interstate 95 and Ashland, Virginia (see Figure 6: Offsite Alternative, Blenheim Site). Most of the site consists of mixed pine hardwood forest, as well as clear cut land. The site consists of one parcel totaling approximately 506 acres and is zoned as A-1, as such a conditional use permit or rezoning proffer may need to be secured.

Surface Water Impacts:

The most practicable site layout would result in approximately 16.4 acres of wetland impacts and 2,366 lf of stream impacts, according to National Wetland Inventory mapping. At a rate of \$35,000 per wetland mitigation credit, and an estimated \$300 per stream credit, required mitigation costs would be approximately \$1,857,800.

However, in addition to the wetland and stream impacts associated with the site, preliminary RPA impact evaluations show that an estimated 9.6 acres of RPA impacts would be necessary to put the distribution center in this location, making this alternative not feasible due to CBPA regulations.

Cost:

The total assessed value (2020) of the site is \$1,865,700. Anticipated compensatory mitigation costs for the most practicable site layout would be approximately \$1,857,800, bringing a conservative estimate of pre-development cost to \$3,723,500.

Logistics:

Additional constraints that would hinder development of the Blenheim Site include significant undevelopable resource protection area onsite, as well as an overhead electrical easement that bisects the Site, in which development would be prohibited, and access likely limited. The estimated 9.6 acres of RPA impacts necessary to put the distribution center in this location, is not feasible due to CBPA regulations. This site would require costly utility and road improvements.

Technology:

The technology exists to construct a regional distribution center on this site, this alternative is practicable in terms of technology.

Alternative 3: Archie Cannon Site

Alternative 3 is in the Town of Ashland west of I-95. Most of the site consists of mixed hardwood-pine forest and agricultural land. The site consists of 3 parcels totaling approximately 297 acres zoned M-1.

Surface Water Impacts:

Based on previous wetland delineations conducted onsite, NWI, and NHD data, there are extensive wetlands and streams extending into the interior portion of the site making impacts to aquatic resources unavoidable.

Due to the linear nature of the site and the required distribution center configuration, the ability to explore multiple site layouts is extremely limited (see Figure 7: Offsite Alternative, Archie Cannon Site).

The preferred layout (minus stormwater facilities) would require nearly 1,953 linear feet of stream impact, and .5 acres of wetland impacts. At a rate of \$35,000 per wetland mitigation credit, and an estimated \$300 per stream credit, required mitigation costs would be approximately \$620,900.

Cost:

The total assessed value (2020) of all 3 parcels (7870-97-5189; 7880-06-4944; 7881-00-3198) associated with Alternative 3 is \$9,326,600. Anticipated compensatory mitigation costs for the most practicable site layout would be approximately \$620,900, bringing a conservative estimate of pre-development costs to \$9,947,500.

In addition to the costs associated with the assessed land value and compensatory mitigation, analysis was conducted to determine required offsite improvements. Additional required estimated improvements include:

\$10,900,000 – Design and Extension of Hill Carter Parkway to the North (as required by town of Ashland)
\$500,000 – Signalization of Archie Cannon Drive/Route 1 Intersection
\$750,000 – Sanitary sewer main relocation

These combined offsite improvements would total an estimated \$12,100,000. This cost in addition to the land value and compensatory mitigation, puts development costs at an estimated \$22,047,500. This number does not include the construction costs of the distribution center itself.

Logistics:

The site is situated within 3 road miles of an interchange to I-95, however accessing the site from the closest interchange (I95/RT54) would require tractor trailers being routed through the Town of Ashland, which creates significant congestion and public safety concerns. The next closest interchange is approximately 6 miles to the north (I95/RT30). However, the potential exists for increased congestion and reduced traffic safety when accessing the interstate from that location, as it is the primary interchange for the Kings Dominion theme park.

Additionally, John M. Gandy Elementary School is adjacent to the site, just to the south of Archie Cannon Drive. This location would effectively require distribution center trucks to share the same roads with school traffic (buses and personal vehicles daily), creating further public safety risks.

Finally, Alternative 3 does not allow for the future expansion of the distribution center as depicted on the preferred alternative. Because of this the Applicant will not be able to achieve their future goals for the project.

Technology:

The technology exists to construct a regional distribution center on this site, this alternative is practicable in terms of technology.

Alternative 4 Graymont Site:

Alternative 4 (Graymont Site) is located off a rural minor collector road west of I-95 in Hanover County. Most of the site consists of mixed hardwood-pine forest, agriculture, and a single residence. The site is comprised of 2 tax parcels totaling approximately 197 acres and is zoned M-1 (see Figure : Offsite Alternative, Graymont Site).

Surface Water Impacts:

Based on previous wetland delineations conducted onsite, NWI, and NHD data, it is probable that wetlands and streams extend into the interior portion of the site making impacts to aquatic resources unavoidable. The preferred layout (minus stormwater facilities) would require nearly 689 linear feet of stream impact, and 1.1 acres of wetland impacts. At a rate of \$35,000 per wetland mitigation credit, and an estimated \$300 per stream credit, required mitigation costs would be approximately \$283,700.

Cost:

The total assessed value (2020) of both parcels (7881-16-4522; 7881-29-3011) associated with Alternative 4 is \$1,993,000. Anticipated compensatory mitigation costs for the most practicable site layout would be approximately 283,700, bringing a conservative estimate of pre-development costs to \$2,276,700.

In addition to the costs associated with the total assessed value and compensatory mitigation, analysis was conducted to determine required offsite improvements. Additional required estimated improvements include:

\$8,800,000 – Ellet's Crossing Road Improvements (current road section not adequate for tractor trailers).

\$1,500,000 – Sanitary Pump Station and Force Main

\$2,800,000 – Site Retaining Wall

The combined offsite improvements would total an estimated \$13,100,000. This cost in addition to the land value and compensatory mitigation, puts development costs at an estimated \$15,376,700. This number does not include the construction costs of the distribution center itself.

Logistics:

Primary site access would likely be routed to the Route 30/I-95 interchange, approximately 4 miles to the north. Secondary access would be routed approximately 4 miles south through the Town of Ashland. Both routes are further from I-95 interchanges than desired and require trucks to spend more time in frequently congested areas. Additionally, a rural minor collector road and an unclassified rural local road would require costly road improvements as discussed in the previous section.

Finally, Alternative 4 offers an extremely tight fit at best with regards to the distribution center layout and would not allow for further expansion of the distribution center as depicted on the preferred alternative. Because of this the Applicant will not be able to achieve their future goals for the project.

Technology:

The technology exists to construct a regional distribution center on this site, this alternative is practicable in terms of technology.

5.4 Preferred Alternative: Airpark Site

The approximately 217-acre site is in Hanover County southwest of the intersection of Ashcake Road and Sliding Hill Road. The Site is surrounded by agricultural and forest land, as well as Ashcake Road to the north, residential development and forest, as well as Sliding Hill Road to the east and south, and the Hanover County Municipal Airport and industrial/commercial development to the West. The project lies within the Pamunkey Watershed (Hydrologic Unit Code 02080106). This site is currently properly zoned for the intended use.

Surface Water Impacts:

Based on the most recent wetland delineation and Jurisdictional Determination provided by the U.S. Army Corps of Engineers, the optimized on-site layout will result in unavoidable permanent impacts to 14.8 acres of wetlands (see impacts map and associated table). At a rate of \$35,000 per wetland credit, compensatory mitigation costs are estimated to be \$1,027,950.

Cost:

The total assessed value (2020) of the preferred site is \$4,406,000. Anticipated compensatory mitigation costs for the site is \$1,027,950, bringing a conservative estimate of pre-development costs to \$5,433,950

In addition to the costs associated with the total assessed value and compensatory mitigation, analysis was conducted to determine required offsite improvements. Additional required estimated improvements include:

\$500,000 – Sliding Hill Road improvements (curve softening)
\$290,000 – New turn lane and acceleration lane on Sliding Hill Road

This puts the estimated combined costs of land value, mitigation, and offsite improvements at \$6,223,950.

Logistics:

The proposed entrance to the distribution center at the Airpark site is approximately 2 miles from the I-95/RT656 (Sliding Hill Rd) interchange. This allows trucks to access I-95 in an efficient manner (straight route), while minimizing the amount of time they would have to spend on local roads. Additionally, as part of the thoroughfare plan, Sliding Hill Road has already gone through recent widening improvements, which helps eliminate the costs of any further offsite road improvements such as those presented in the alternatives.

Technology:

The technology exists to construct a regional distribution center on this site, this alternative is practicable in terms of technology.

5.6 Preferred Vs. Alternatives Conclusion

Alternative 1 (Flippo) vs. Airpark

Compared to the Airpark site, Alternative 1 is not the practicable alternative for several reasons:

- Wetland impacts associated with site development are estimated at 15 acres, which is more than the Airpark site.
- Offsite road improvements, as well as the cost associated with utility development and coordination would be detrimental to the applicant.
- Rezoning efforts would be both timely and costly to the Applicant with no guarantees that the rezoning could be accomplished, making the Airpark site a much more appealing location as it is already properly zoned.
- Use of the I95/RT30 interchange presents traffic issues for tractor trailers leaving and coming into the distribution center from I95, as that is the same interchange associated with the Kings Dominion theme park. This presents a greater risk to public safety and produces traffic congestion during certain seasons of the year.

Alternative 2 (Blenheim) vs. Airpark

Compared to the Airpark site, Alternative 2 is not the practicable alternative for several reasons:

- Wetland (est. 16.4 acres) and stream impacts (2,366 lf) associated with the development of this site in accordance with the necessary programming would be greater than those determined for the Airpark site. No stream impact at Airpark site
- Est. 9.6 acres of non-allowable RPA impacts
- Offsite road and utility improvement requirements would be costly
- Easement bisecting the site
- Rezoning efforts would be both timely and costly to the Applicant with no guarantees that the rezoning could be accomplished, making the Airpark site a much more appealing location as it is already properly zoned.

Alternative 3 (Archie Cannon vs. Airpark)

Compared to the Airpark site, Alternative 3 is not the practicable alternative for several reasons:

- Land, compensatory mitigation, and offsite improvement costs for this site are estimated to be \$22,047,500. This cost is not practicable and is prohibitive to site development as it is approximately \$15,800,000 more than the costs associated with the preferred site.
- Development of this site would put tractor trailers on the same roads utilized by the adjacent elementary school, posing a greater risk to public safety daily.
- The town of Ashland will no longer allow this location to be used as a distribution center and trying to re-zone this location is not practicable due to the applicant's timeline.
- Limitation in orientation and size prohibits this parcel from the Applicant meeting their future expansion goals, failing to meet their Purpose and Need.
- Rezoning efforts would be both timely and costly to the Applicant with no guarantees that the rezoning could be accomplished, making the Airpark site a much more appealing location as it is already properly zoned.

Alternative 4 (Graymont vs. Airpark)

Compared to the Airpark site, Alternative 4 is not the practicable alternative for several reasons:

- Land, compensatory mitigation, and offsite improvement costs for this site are estimated to be \$15,376,700. This cost is not practicable and is prohibitive to site development as it is approximately \$9,152,750 more than the costs associated with the preferred site.

- Primary site access would likely be routed to the Route 30/I-95 interchange, approximately 4 miles to the north. Secondary access would be routed approximately 4 miles south through the Town of Ashland (likely not allowed). Both routes are further from I-95 interchanges than desired and require trucks to spend more time in frequently congested areas.
- Alternative 4 offers an extremely tight fit at best with regards to the distribution center layout and would not allow for further expansion of the distribution center as depicted on the preferred alternative. Because of this the Applicant will not be able to achieve their future goals for the project, failing to meet the Purpose and Need.
- Rezoning efforts would be both timely and costly to the Applicant with no guarantees that the rezoning could be accomplished, making the Airpark site a much more appealing location as it is already properly zoned.

The proposed facility at the Airpark Site was determined to be the most practicable long-term solution by providing the largest benefit to the Applicant by most efficiently addressing the needs of the project while providing minimized adverse effects. The proposed facility relieves capacity constraints at existing regional distribution centers, reduces transportation costs, meets site requirements as a centralized location that can support growth, and is near interstate systems that facilitate efficient transportation. This option enables the Applicant to provide the expected level of service, quality, and lead times throughout their network and allows for efficient delivery. Finally, the proposed facility at Airpark provides long-term capacity to support future growth and provides support to the existing networks during unexpected events.

6.0 AVOIDANCE AND MINIMIZATION

Impacts to jurisdictional features were avoided and minimized to the maximum extent practicable by incorporating resourceful site selection and site planning. The proposed impacts associated the distribution center development at the Airpark site are the minimum necessary to meet the Applicant's purpose and need. The proposed layout provides sufficient area to construct the facility.

Fill slopes will be graded to a 3:1 slope and will be hydroseeded and matted to stabilize the site. Incorporating steeper slopes (i.e. 2:1 or 2.5:1) was analyzed for the project. However, given the high level of traffic anticipated for the proposed roadways (i.e. tractor trailer, forklift, etc.), 3:1 slopes were utilized for the project in order to safeguard the site from any potential slope failures which could result in massive and costly disruption to operations. Based on the preliminary geo-technical reports completed for the Project, 3:1 slopes were selected to ensure the site grading would work within the impact envelope, given that the soils may not be able to structurally withstand steeper slopes. Furthermore, it was determined that a 3:1 slope provides an increased level of safety for vehicles and pedestrians in the event that either leave the travel way.

The proposed Project has minimized the possibility of indirect impacts through implementation of planning practices which reduce the influence of direct impacts on downstream water quality. In order to avoid secondary impacts, a project-specific Erosion and Sediment Control (ESC) plan will be prepared in accordance with the Virginia Erosion & Sediment Control Law (VESCL) and Regulations (VESCR) and the most current version of the Virginia Erosion & Sediment Control Handbook. All regulated land-disturbing activities associated with the Project, including on- and off-site access roads, staging areas, borrow areas, stockpiles, and soil intentionally transported from the Project Area will be covered by the project specific ESC plan. During construction

activities, these measures will be inspected and maintained throughout the life of the construction activity providing for enhanced protection of the jurisdictional areas.

The proposed configuration is the most efficient based on a review of other large-scale distribution facilities in the industry and other similar facilities. Using a different layout would mean a less efficient operation and would also require a larger building to be built. The Pottsville, PA facility is arranged in two non-contiguous warehouses, which occupy the same approximate square feet. While the building footprint is similar, the proposed facility will provide increased operational facility compared to the existing facility.

The parking spot allotment is dictated by the required employee parking spaces, as the facility will employ upwards of 700 people upon project completion, as well as the required truck and trailer access and facilities. The proposed building heights are already near the maximum allowable height based on municipal and zoning regulations. Therefore, another level cannot be added to the facility in an effort to reduce the parking footprint.

The impervious areas proposed are all necessary for the adequate flow of truck traffic and personnel on-site during working hours. Parking spaces, drive aisles, and curbing is sited at the minimum offsets/spacing needed as directed by the end user.

7.0 UPDATED IMPACT INFORMATION

The preferred alternative located at the Airpark site meets the minimum site requirements for the distribution center and was determined to be the most practicable long-term solution to address the Applicant's purpose and need while effectively minimizing adverse impacts to the natural environment. Project implementation would require permanent impacts to 14.8 acres of wetlands.

The development of the Project will require unavoidable permanent impacts to 14.42 acres of PFO wetlands, 0.23 acres of PEM wetlands, and .15 acres of ditch impacts. The permanent wetland impacts are associated with grading, cut, and fill activities required for the construction of the proposed buildings and parking areas, as well as roadway and utility infrastructure development. A map showing the location of the jurisdictional impacts is shown in Appendix A: Wetlands and Waters Impact Map.

The total impacts for the proposed Project are described in the Table below.

Wetlands & Waters Impact Information

Impact ID	Wetland/Water Impact Description*	Wetland Impact Area		Ditch Impact Area		Apprx. Vol. of Fill below OHW	Cowardin Classification of Impacted Wetland/Water	Average Stream Flow	Drainage Area	DEQ Classification of Impacted Resource
(1,2, etc.)		s.f.	acres	L	s.f.	c.y.	(PEM, PSS, etc.)	c.f.s.	sq. mile	
1	F,NT,PE,V	22,550	0.52				PFO	n/a	n/a	VII
2A	F,NT,PE,V	8,496	0.20				PFO	n/a	n/a	VII
2B	F,NT,PE,V	2,650	0.06				PEM	n/a	n/a	VII
3A	F,NT,PE,V	5,705	0.13				PFO	n/a	n/a	VII
3B	F,NT,PE,V				574		Ditch	n/a	n/a	VII
4A	NT,PE,V, Secondary	22,223	0.51				PFO	n/a	n/a	VII
4B	NT,PE,V, Secondary				357		Ditch	n/a	n/a	VII
5	F,NT,PE,V	3,085	0.07				PFO	n/a	n/a	VII
6	NT,PE,V, Secondary	37,459	0.86				PFO	n/a	n/a	VII
7	F,NT,PE,V	434,465	9.97				PFO	n/a	n/a	VII
8A	F,NT,PE,V	15,038	0.35				PFO	n/a	n/a	VII
8B	F,NT,PE,V				505		Ditch	n/a	n/a	VII
9A	F,NT,PE,V	5,247	0.12				PEM	n/a	n/a	VII
9B	F,NT,PE,V	2,734	0.06				PFO	n/a	n/a	VII
10	F,NT,PE,V	197	0.00				PFO	n/a	n/a	VII
11	F,NT,PE,V	3,465	0.08				PFO	n/a	n/a	VII
12	F,NT,PE,V	10,864	0.25				PFO	n/a	n/a	VII
13	F,NT,PE,V	23,924	0.55				PFO	n/a	n/a	VII
14	F,NT,PE,V	1,954	0.04				PFO	n/a	n/a	VII
15	F,NT,PE,V	1,037	0.02				PFO	n/a	n/a	VII
16	F,NT,PE,V	2,199	0.05				PEM	n/a	n/a	VII
17	F,NT,PE,V	2,462	0.06				PFO	n/a	n/a	VII
18A	F,NT,PE,V	6,179	0.14				PFO	n/a	n/a	VII
18B	NT,PE,V, Secondary	13	0.00				PFO	n/a	n/a	VII
19	F,NT,PE,V	1,524	0.03				PFO	n/a	n/a	VII
20	F,NT,PE,V				3607		Ditch	n/a	n/a	VII
21	F,NT,PE,V	10,252	0.24				PFO	n/a	n/a	VII
22	F,NT,PE,V	9,003	0.21				PFO	n/a	n/a	VII
23	F,NT,PE,V				1378		Ditch	n/a	n/a	VII
24	F,NT,PE,V	1,491	0.03				PFO	n/a	n/a	VII
25A	F,NT,PE,V	1,276	0.03				PFO	n/a	n/a	VII
25B	NT,PE,V, Secondary	2,741	0.06				PFO	n/a	n/a	VII
Total		638,233	14.65	0	6,421					

* Use all that apply: F-fill, EX-excavation, S-Structure, T-tidal, NT-non-tidal, TE-temporary, PE-permanent, PR-perennial, IN-intermittent, EP-ephemeral, SB-subaqueous bottom, DB-Dune/Beach, IS-hydrologically isolated, V-vegetated, NV-non-vegetated, MC-mechanized clearing of PFO

8.0 COMPENSATORY MITIGATION

Compensatory mitigation for these unavoidable impacts will be achieved through the purchase of off-site mitigation credits from a Wetland and Stream Mitigation Bank, which is approved for use in the Pamunkey Watershed (Hydrologic Unit Code 02080106). Per 9 VAC 25.210-80 B. 1.h(1) the required compensatory mitigation was determined by first totaling the square footage of wetland impacts by Cowardin Classification then converting to acres and rounding to the nearest hundredth decimal in order to find the impact acreage per classification. A ratio of 2:1 was applied for PFO and adjacent ditch impacts, and 1:1 for PEM impacts to determine the total compensatory mitigation per classification. Wetland mitigation credits will be purchased at a ratio of 2:1 (9.92 credits) for PFO wetland impacts and 1:1 for PEM wetland impacts (0.23 credits) (see Appendix C: Wetland Mitigation Credit Availability Letter). Impacts resulting from the proposed project require 29.37 wetland mitigation credits as detailed in the table below.

Required Compensatory Mitigation			
Cowardin	s.f.	acres	Credits
PFO	628,137	14.42	28.84
PEM	10,096	0.23	0.23
Ditch	6,421	0.15	0.29
Total Compensation:	644,654	14.80	29.37